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### Part 1 is the Impacts

#### All Capitalism is Racial Capitalism – the modern system of labor can only sustain itself through parasitic governance which produce disposable populations and black death

Wang 18 [Jackie, PhD African-American Studies @ Harvard, “Carceral Capitalism” p. 63-85//ak47]

Mass Incarceration, the Debt Economy, and the Post-Work Society The purpose of the above summary of the Black Panther Party’s analysis of prisons and how technological innovation could lead to the lumpenization of the working class is to draw attention to the possibility that labor-saving technologies will not necessarily liberate humans from work as we move toward a post-scarcity and post-work society, but can lead to the creation of surplus populations that are housed—and generate value—in prison or are folded into the economy as debtors. Although Cleaver hypothesized that the welfare state would prop up consumption as more people were shunted from the production process, in the decades since he published his essay, the welfare state has contracted while the debt economy has ballooned. Maurizio Lazzarato, in The Making of the Indebted Man, analyzes the significance of this transition from social right to social debt: “When social rights (unemployment insurance, the minimum wage, health care, etc.) are transformed into social debt and private debt, and beneficiaries into debtors whose repayment means adopting prescribed behavior, subjective relations between ‘creditor’ institutions, which allocate rights, and ‘debtors,’ who benefit from assistance or services, begin to function in a radically different way, just as Marx foresaw.”³¹ For Lazzarato, debt should be conceptualized not only in terms of money and repayment, but also in terms of the disciplinary function of debt and the docile subjectivities produced by indebtedness. He writes: Unlike what happens on financial markets, the beneficiary as “debtor” is not expected to reimburse in actual money but rather in conduct, attitudes, ways of behaving, plans, subjective commitments, the time devoted to finding a job, the time used for conforming oneself to the criteria dictated by the market and business, etc. Debt directly entails life discipline and a way of life that requires “work on the self,” a permanent negotiation with oneself, a specific form of subjectivity: that of the indebted man. In other words, debt reconfigures biopolitical power by demanding a production of subjectivity specific to indebted man.³² Thus, as more people join the ranks of the lumpen or the precariat, and as production migrates around the globe or becomes more efficient, we have witnessed the expansion of the debt economy. Debt not only means that the creditor essentially owns the future of the debt (which would unconsciously and consciously affect the life choices made by the debtor), but that debt actually produces a specific kind of subjectivity. In Humans Need Not Apply, Jerry Kaplan—a futurist, entrepreneur, and fellow at the Stanford Center for Legal Informatics—predicts that 90 percent of the jobs that exist now will eventually be automated. While some post-Marxist tech critics hypothesize that automation will inevitably lead to guaranteed basic income, the monetization of the social value of our participation as users, and the creation of a post-work society, it seems just as plausible—given recent trends—that the social and economic crisis of unemployment caused by automation will lead to the creation of new debt and credit regimes. Such innovations are already incubating in Silicon Valley. In his book Humans Need Not Apply: A Guide to Wealth and Work in the Age of Artificial Intelligence, Kaplan proposes job mortgages as a way to weather what he believes will be an economic transitional phase: I will propose an approach to this problem in the form of a new type of financial instrument, the “job mortgage,” secured exclusively by your future labor (earned income) similar to the way your home mortgage is secured exclusively by your property. Out of work? Payments are suspended for some reasonable grace period, until you find another job. In the proposed system, employers and schools will have incentives to collaborate in a new way. Employers will issue nonbinding letters of intent to hire you if you acquire specified skills, and they will get certain payroll tax breaks if they ultimately follow through. These letters of intent will serve the same purpose for job mortgage lenders as an appraisal serves for a home mortgage lender. Training institutions will have to craft their curricula around the specific skills required by sponsoring employers in order to meet the requirements of the loans, or else students won’t enroll. You won’t be committed in advance to accepting a particular position if someone else makes you a better offer, but at least you have the comfort of knowing that you are acquiring the skills valued by the marketplace. In effect, this scheme introduces a new form of feedback and liquidity into labor markets, enforced through the discipline of the free market.³³ Far from inaugurating the communist utopia many of us wish for, technological innovations that reduce the need for human labor may just become an opportunity for financial institutions to have broader ownership of our futures through the creation of new credit instruments. Such an instrument as the job mortgage would not merely be a way to inject liquidity into labor markets, it would be a disciplinary apparatus that comes with a set of terms and requirements. Although the job mortgage would make lending institutions entitled to a percentage of borrowers’ future income, if borrowers don’t find a job, they would still have to pay back a portion of the loan. But questions remain about how borrowers would be punished if they failed to meet the requirements of the job mortgage. What if a borrower takes out a loan and decides to switch career paths? What if the debtor drops out and decides to live in a punk house and hitchhike across the country? What if, after learning how to program the software for selfdriving cars, a borrower decides it’s not for them and instead gets into producing electronic music? Will we even be able to imagine such futures for ourselves as the credit system colonizes all areas of our lives and constrains our futures? Will these credit instruments and the “discipline of the free market” reduce our lives to the acquisition of “marketable skills” and make it impossible to explore, wander, create, invent, learn (as opposed to “acquiring skills”), relax, form non-instrumentalized social bonds, loaf, and daydream? Without a revolution or a social movement to overturn or counter the direction of the debt economy and techno-capitalism, we might be catapulted into a future where our lives are disciplined and determined by our dependency on credit. The New Racial Capitalism The essays included in this book—which are more suggestive than they are conclusive—attempt to update the analytic of racial capitalism for a contemporary context. Rather than focusing on the axis of production by analyzing how racism operates via wage differentials, this work attempts to identify and analyze what I consider the two main modalities of contemporary racial capitalism: predatory lending and parasitic governance. These racialized economic practices and modes of governance are linked insofar as they both emerge to temporarily stave off crises generated by finance capital. By titling this book Carceral Capitalism, I hope to draw attention to the ways in which the carceral techniques of the state are shaped by— and work in tandem with—the imperatives of global capitalism. Predatory lending is a form of bad-faith lending that uses the extension of credit as a method of dispossession. When analyzing contemporary economic practices, a distinction can be made between good-faith and bad-faith forms of credit. Good-faith lending might have a fixed interest rate and be designed such that there is a possibility of the loan being paid. It enables borrowers to accumulate wealth, though as the debt economy expands, it is becoming increasingly difficult for people to ever get out of debt. Bad-faith lending might be a high-interest or free-floating interest rate loan (often offered with a “hook” rate that eventually expires) and is designed such that the borrowers will likely default and thus their property will be taken away (their goods repossessed, their homes foreclosed, etc.). In the United States, the kind of credit a borrower has access to depends in part on the race of the borrower. Today, before working on this introduction, I read an article in The New York Times about how the largest bank in the U.S.—JP Morgan—will pay $55 million in damages for discriminatory lending practices that targeted blacks and Latinxs for higher-interest mortgage loans than whites of the same income bracket (Wells Fargo also had to pay $175 million for engaging in the same practices). As predatory lending systematically prevents mostly poor black Americans from accumulating wealth or private property, it is a form of social exclusion that operates via the inclusion of marginalized populations as borrowers. For it is as borrowers that they are eventually marked for further social exclusion (through credit and e-scores). Predatory lending exists in many forms, including subprime mortgage loans, student loans for sham for-profit colleges (which Obama attempted to regulate, but may be revived by Education Secretary Betsy DeVos), car loans, and so forth. Predatory lending practices also have a decidedly spatialized character. In impoverished urban areas, predatory lending exists in the form of rent-to-own scams, payday loans, commercial bail bonds, and other practices. Overall, predatory lending enables profit maximization when growth is stagnant, but this form of credit will always be plagued by realization problems, which are sometimes resolved using state force. Parasitic forms of governance—which have intensified in the wake of the 2008 crash—are actually rooted in decades-old problems that are coming to a head only now. Beginning in the 1970s, there was a revolt in the capitalist class that undermined the tax state and led to the transformation of public finance. During the subsequent decades the tax state was gradually transformed into the debt state—“that is, a state which covers a large, possibly rising, part of its expenditure through borrowing rather than taxation, thereby accumulating a debt mountain that it has to finance with an ever greater share of its revenue.”³⁴ This model of public finance creates a situation where creditors, rather than the public, become the privileged constituency of governments. The hegemony of finance is antidemocratic not only because financial institutions are opaque and can influence finance through their ownership of the public debt, but also because fiscal crises (which can be induced by the financial sector) authorize the use of state power to extract from the public. Parasitic governance, as a modality of the new racial capitalism, uses five primary techniques: 1) financial states of exception, 2) automated processing, 3) extraction and looting, 4) confinement, and 5) gratuitous violence (with execution as an extreme manifestation of this technique). The Financial State of Exception Perhaps what I would call a financial state of exception would be best exemplified by the recent cases of the Flint water crisis and the Puerto Rican fiscal crisis. They both entail a suspension of the so-called normal democratic modes of governance (where decisions are made by elected officials) and the implementation of rule by emergency managers (EMs) who represent the interests of the financial sector. Usually it is a state, municipal, or sovereign debt crisis that authorizes the financial takeover of governance (but it can also be a “natural” disaster, as we saw in New Orleans with Hurricane Katrina). A financial state of emergency can also be induced when banks create a liquidity shortage by abruptly refusing to lend money to government bodies (which is what occurred in the 1975 bankruptcy of New York City). Flint, Michigan, is a perfect example of how a financial state of exception can produce a nightmarish outcome. As I write this, it has been more than a thousand days since Flint had clean water—but what does this have to do with the financial and government processes I have described above? In 2011, Governor Rick Snyder appointed emergency managers to seize control of the financial affairs of the city in the name of the public good. Like many other ailing postindustrial cities in Michigan that have experienced depopulation and the collapse of the tax base, Flint was facing a fiscal crisis. In 2014, to cut costs, the city switched its water source from Detroit’s Lake Huron system to the Flint River. Officials—including the emergency financial managers—did this knowing that the city did not have the infrastructure to properly treat the water. The untreated water corroded the pipes, and high levels of lead leaked into the water, poisoning the primarily black residents of the city. To give you a sense of how toxic the water was, consider that at five thousand parts per billion of lead, water is regarded as hazardous waste. When the Flint resident LeeAnne Walters had her water tested, the lead level was at 13,200 ppb. Like many of the children and infants exposed to the contaminated water, Walters’s son Gavin was diagnosed with lead poisoning. In short, the financial state of exception created by the budget crisis authorized the implementation of emergency financial managers whose primary goal was to make Flint solvent by any means necessary, even if it meant endangering the health of the residents. Under the auspices of the EMs, Flint was barred from borrowing money or issuing bonds. Given that, under the current fiscal paradigm, the federal government no longer provides significant funds to cities, the residents were left to suffer the consequences of the dramatic spending cuts. As dry and technical and boring as the topic of municipal finance and fiscal retrenchment is, we see in the case of the Flint water crisis that these matters form the invisible backdrop of our lives: they directly determine our quality of life and even our health outcomes. We cannot, even on a bodily level, flourish under these conditions. But it should be emphasized that vulnerability to parasitic government practices is not equally distributed in the country. The practices you are exposed to depend on where you live (which, given how segregated our country is, is determined in large part by your race and class). Automation The second technique of the parasitic governance model I am outlining is automation. In Weapons of Math Destruction, Cathy O’Neil points out that “The privileged, we’ll see time and again, are processed more by people, the masses by machines.”³⁵ When government bodies are strapped for cash, they can raise revenue by implementing software that automates the process of fining people; garnishing wages, Social Security, and tax returns; ticketing people; and extracting wealth—all while avoiding the cost of hiring personnel to individually file cases against people. To cite a common example: tickets for traffic violations such as running a red light can be issued by mail when sensors and cameras are affixed to traffic lights. Though this practice seems benign, it can become a nightmarish scenario when a person (perhaps because they have moved) never receives the ticket and thus has a warrant out for their arrest. But perhaps the most paradigmatic example of this practice is a situation that recently came to light in—again—Michigan. In 2013—during the peak of the same fiscal crisis that led to the bankruptcy of Detroit and the Flint water crisis—the Michigan Unemployment Insurance Agency (UIA) implemented a system that automatically issued more than twenty thousand accusations of fraud against people who were applying for unemployment benefits. After a class-action lawsuit was filed, a review of the cases found that 93 percent of the fraud claims issued by the Michigan Integrated Data Automated System (Midas) were false. After the implementation of Midas, the balance of the UIA’s contingent fund (which consists mostly of funds generated from fraud fines) ballooned from $3.1 million to $155 million. Just a week before the report was released, Michigan passed legislation that enabled the state to use money from the UIA’s contingent fund to balance the state budget. As the attorney David Blanchard put it, “It’s literally balancing the books on the backs of Michigan’s poorest and jobless.”³⁶ Unfortunately, because the social consequences of automated processing are difficult to make legible and identify, cases such as the Midas case often fail to register as scandals. Extraction and Looting Racialized expropriation, as a tool of both finance capital and the parasitic state, is discussed in greater depth in my chapters on the debt economy and municipal finance. While extraction and looting are the lifeblood of global capitalism, it occurs domestically in the public sphere when government bodies—out of pressure to satisfy their private creditors—harm the public not only by gutting social services, but also by looting the public through regressive taxation, fee and fine farming, offender-funded criminal justice “services” such as private probation services, and so forth. While in the private sector the extension of subprime credit is often deployed as a racialized form of expropriation, in the public sector municipal governments (in tandem with or on behalf of financial institutions) use the police and the criminal justice system to loot black jurisdictions. Many Marxist and post- Marxist thinkers, including David Harvey, have analyzed how the advanced global economies— and the U.S. in particular—use their military, economic, and political might to secure access to natural resources and cheap labor, whether it is through lending, military force, brokering deals with corrupt autocrats, sponsoring coups, or international trade agreements made on the terms of the Global North. Some have argued that the expansion of capitalism necessitates the use of force to expropriate wealth from areas “outside” its formal sphere. Harvey has called this dynamic of late capitalism the “new imperialism.” In a postcolonial world, expropriation must proceed along lines other than brute territorial expansion. I will return to this theoretical debate in my chapter on the debt economy, but first I would like to briefly turn to Brandon Terry’s analysis of what could be described as a domestic staging of a similar process: the expropriation of wealth from black America. In “Insurgency and Imagination in an Age of Debt,” Terry uses Stokely Carmichael and Charles V. Hamilton’s conceptualization of black America as an “internal colony” to elucidate finance capital’s predatory relationship to black America. Since the neoliberalization of the U.S. economy, household debt has ballooned, and this debt load is disproportionately borne by black Americans and the poor. Between 1980 and 2006, “household debt as a percentage of disposable personal income has grown from 72.1% to 139.7%.”³⁷ Given this unequal debt load among urbanized black Americans who have lost access to secure employment (owing to the loss of unionized manufacturing jobs and the scaling back of the public sector), Terry is justified in his centering of “debt and financialization” over “labor and production” as his main axis of analysis. This debt regime operates not only through categorizing and targeting certain racialized subjects for loans that are essentially scams—it is also territorializing insofar as it relies on spatialized segregation in order to function. In his description of the “consumer life of the ghetto,” Terry provides a number of examples of predatory scams that are only possible vis-à-vis the ghetto as a spatial configuration: a Playstation 4 console bundle, as of the writing of this essay, costs $299.99 from the electronics retailer, Best Buy. From the rent-to-own retailer, Rent-A-Center in Dorchester, Massachusetts, the same electronics bundle costs $122 per month, with insurance charges, over a term of sixteen months—amounting to $1,952—an over 650% price increase. When consumers fall short—even if many hundreds of dollars have already been paid—late fees are charged, the police may be called, and goods can be repossessed and resold again for the same exorbitant price. Such profits are parasitic on many of the conditions constitutive of ghettoization—precarious employment, inherited and cumulative disadvantages in wealth, inferior education, information asymmetries rooted in discrimination and social marginalization, and lack of mobility and access to commerce. Where these phenomena do not exist, rent-to-own is a negligible feature of consumer life.³⁸ In urban ghettos, ethically dubious extractive methods prevail because residents are spatially exposed to predation. Terry suggests that, given the territorializing and expropriative character of capital’s relation to black America, the colonial analogy in Carmichael and Hamilton’s conceptualization of black America as an internal colony is apt in the domains of geography and economics (precisely where the analogy seems “ill-fitting”).³⁹ Some theorists—and particularly Afro-pessimists such as Jared Sexton—would likely cavil at the use of colonialism as an analytic to understand antiblack social dynamics, as black racialization historically occurred on the axis of enslavement (by associating blackness with the transferrable condition of enslavement) and not colonization or territorial conquest. Nonetheless, Terry’s analysis is convincing insofar as it shows how racial segregation and the spatial concentration of poverty essentially create zones that are marked lootable. The looting persists because residents in these zones have access to neither “good-faith” credit nor the material means to escape spatial exposure to predation. Confinement While the first three categories (of financialization, automation, and looting) represent exclusionary processes that proceed by way of inclusion (subjectivation as citizen debtors, incorporation through the extension of credit), confinement and gratuitous violence are examples of exclusionary processes that result in civic and actual death. In other words, in the first three instances the parasitic state and predatory credit system must keep people alive in order to extract from them; in the latter two instances it must confine and kill to maintain the current racial order. As we move to the fourth and fifth techniques of parasitic governance—confinement and gratuitous violence—we reach the point at which political economy fails as a lens through which to analyze racial dynamics in the United States. Although the concept of the prison-industrial complex draws attention to the industries that benefit from the prison boom of the last several decades—including the construction companies contracted to build the prisons, the companies contracted to supply food and commissary items, the predatory phone and video companies contracted to provide communication services, and private prison companies such as GEO Group and the Corrections Corporation of America (which has recently rebranded itself as CoreCivic)—the profit motive itself is not sufficient in explaining the phenomenon of racialized mass incarceration. Nonetheless, an economic analysis of prisons should not be wholly abandoned. In addition to drawing attention to the private companies that benefit from the existence of prisons, there is much that political economy can tell us about prisons in the U.S.: it can elucidate how the economies of rural white America were revived through the construction of prisons and the employment of displaced white workers as prison guards; it can explain how deindustrialization and the migration of jobs to the suburbs and abroad created zones of concentrated black urban poverty; and it can show how the expansion of prisons “solved” the surplus population crisis caused by the wave of unemployment that followed the restructuring of the U.S. economy. Political economy also gives us a way to understand the growth of private prisons in the last several decades (particularly in the arena of juvenile detention) and the use of prison labor to produce goods at an average cost of 93 cents per hour.⁴⁰ The lens of political economy can even shed light on why there has been a marginal decrease in the prison population in the wake of the 2008 financial crash, which led to revenue shortfalls that left many states desperate to slash public spending. Yet to reduce mass incarceration to the profit motive would be misleading, considering that most inmates are held in publicly operated state and federal facilities as well as public local jails. Though as many as seven hundred thousand prisoners are employed in a variety of jobs (ranging from facility maintenance to manufacturing jobs in industries such as furniture production), the majority of those in prisons and jails don’t work. At the end of the day, the cost of housing prisoners is high, and the public bears the burden of the cost. A question that a purely economistic view fails to address is why, when the welfare state was being dismantled and there was an ideological pivot away from “big government,” was the public induced to believe that a prison binge was legitimate while spending on social services, education, and job creation was not? Is it possible that, as the government withdrew from the arena of social welfare and the revolt among those in the capitalist class reorganized politics such that the government was no longer allowed to regulate the economy, the only remaining social entitlement—the entitlement that has come to give the state as an entity its coherence—is the entitlement of security? As President Lyndon B. Johnson said in his March 8, 1965, speech to Congress on the eve of the era of mass incarceration, “No right is more elemental to our society than the right to personal security and no right needs more urgent protection. Our streets must be safe. Our homes and places of business must be secure. Experience and wisdom dictate that one of the most legitimate functions of government is the preservation of law and order.”⁴¹ This evolution in the social function of the state from provider of social services to provider of security also represented an evolution in how racialized populations in the United States would be managed. The project of dismantling the welfare state gained legitimacy through the association of social entitlements with blackness. If black Americans were seen as the primary beneficiaries of social programs (whether affirmative action, Medicaid, or food stamps), then the post–civil rights era conservative view that black Americans were getting ahead at the expense of white Americans would conveniently delegitimize the welfare function of the state as a whole. This is perhaps why many poor and workingclass Americans can rail against welfare and “greedy minorities” while not even being aware that they are beneficiaries of the very services and programs undermined by their sentiments. It is hardly surprising that today, a survey found that 43 percent of Republicans said that whites, rather than blacks, experience a lot of discrimination, while only 27 percent of Republicans believed that blacks experience a lot of discrimination.⁴² Given that white conservatives feel that blacks have a social advantage over whites, and that this “unfair advantage” is, in their view, facilitated by the state, it follows that gutting social entitlements will bring about their warped version of “equality.” All this is to say that antiblack racism is at the core of mass incarceration and the transformation of the welfare state not only into the (neoliberal) debt state, but into the penal state as well. At the dawn of the carceral era, the United States chose the path of divestment in social entitlements and investment in prisons and police. There was nothing inevitable about this policy path, as Elizabeth Hinton captures in her brilliant book From the War on Poverty to the War on Crime: The Making of Mass Incarceration in America. The project of dismantling the welfare state was intimately tied to constructing urban black Americans trapped in zones of concentrated poverty as deserving of their situation. Coded racism was used to construct poverty as a personal moral failure. A structural analysis of urban poverty was set aside, and a racialized narrative of cultural pathology was taken up. In holding those hit hardest by cataclysmic changes in the economy responsible for their suffering (attributing their situation to laziness, criminal proclivities, and cultural inferiority), black Americans were simultaneously constructed as deserving of punishment. The conversion of poverty into a personal moral failure was intimately tied to the construction of black Americans as disposable and subject to mass incarceration. Antiblack racism, and not merely the profit motive, is at the heart of mass incarceration. Thus, the title of this book, Carceral Capitalism, is not an attempt to posit carcerality as an effect of capitalism, but to think about the carceral continuum alongside and in conjunction with the dynamics of late capitalism.

**Resource competition and wealth extraction under Racial Capitalism produces fascism, endless war and environmental destruction**

Robinson 14(William I., Prof. of Sociology, Global and International Studies, and Latin American Studies, @ UC-Santa Barbara, “Global Capitalism: Crisis of Humanity and the Specter of 21st Century Fascism” The World Financial Review)

Cyclical, Structural, and Systemic Crises Most commentators on the contemporary crisis refer to the “Great Recession” of 2008 and its aftermath. Yet the causal origins of global crisis are to be found in over-accumulation and also in contradictions of state power, or in what Marxists call the internal contradictions of the capitalist system. Moreover, because the system is now global, crisis in any one place tends to represent crisis for the system as a whole. The system cannot expand because the marginalisation of a significant portion of humanity from direct productive participation, the downward pressure on wages and popular consumption worldwide, and the polarisation of income, has reduced the ability of the world market to absorb world output. At the same time, given the particular configuration of social and class forces and the correlation of these forces worldwide, national states are hard-pressed to regulate transnational circuits of accumulation and offset the explosive contradictions built into the system. Is this crisis cyclical, structural, or systemic? Cyclical crises are recurrent to capitalism about once every 10 years and involve recessions that act as self-correcting mechanisms without any major restructuring of the system. The recessions of the early 1980s, the early 1990s, and of 2001 were cyclical crises. In contrast, the 2008 crisis signaled the slide into a structural crisis. Structural crises reflect deeper contra- dictions that can only be resolved by a major restructuring of the system. The structural crisis of the 1970s was resolved through capitalist globalisation. Prior to that, the structural crisis of the 1930s was resolved through the creation of a new model of redistributive capitalism, and prior to that the struc- tural crisis of the 1870s resulted in the development of corpo- rate capitalism. A systemic crisis involves the replacement of a system by an entirely new system or by an outright collapse. A structural crisis opens up the possibility for a systemic crisis. But if it actually snowballs into a systemic crisis – in this case, if it gives way either to capitalism being superseded or to a breakdown of global civilisation – is not predetermined and depends entirely on the response of social and political forces to the crisis and on historical contingencies that are not easy to forecast. This is an historic moment of extreme uncertainty, in which collective responses from distinct social and class forces to the crisis are in great flux. Hence my concept of global crisis is broader than financial. There are multiple and mutually constitutive dimensions – economic, social, political, cultural, ideological and ecological, not to mention the existential crisis of our consciousness, values and very being. There is a crisis of social polarisation, that is, of social reproduction. The system cannot meet the needs or assure the survival of millions of people, perhaps a majority of humanity. There are crises of state legitimacy and political authority, or of hegemony and domination. National states face spiraling crises of legitimacy as they fail to meet the social grievances of local working and popular classes experiencing downward mobility, unemployment, heightened insecurity and greater hardships. The legitimacy of the system has increasingly been called into question by millions, perhaps even billions, of people around the world, and is facing expanded counter-hegemonic challenges. Global elites have been unable counter this erosion of the system’s authority in the face of worldwide pressures for a global moral economy. And a canopy that envelops all these dimensions is a crisis of sustainability rooted in an ecological holocaust that has already begun, expressed in climate change and the impending collapse of centralised agricultural systems in several regions of the world, among other indicators. By a crisis of humanity I mean a crisis that is approaching systemic proportions, threatening the ability of billions of people to survive, and raising the specter of a collapse of world civilisation and degeneration into a new “Dark Ages.”2 This crisis of humanity shares a number of aspects with earlier structural crises but there are also several features unique to the present: 1. The system is fast reaching the ecological limits of its reproduction. Global capitalism now couples human and natural history in such a way as to threaten to bring about what would be the sixth mass extinction in the known history of life on earth.3 This mass extinction would be caused not by a natural catastrophe such as a meteor impact or by evolutionary changes such as the end of an ice age but by purposive human activity. According to leading environmental scientists there are nine “planetary boundaries” crucial to maintaining an earth system environment in which humans can exist, four of which are experiencing at this time the onset of irreversible environmental degradation and three of which (climate change, the nitrogen cycle, and biodiversity loss) are at “tipping points,” meaning that these processes have already crossed their planetary boundaries. 2. The magnitude of the means of violence and social control is unprecedented, as is the concentration of the means of global communication and symbolic production and circulation in the hands of a very few powerful groups. Computerised wars, drones, bunker-buster bombs, star wars, and so forth, have changed the face of warfare. Warfare has become normalised and sanitised for those not directly at the receiving end of armed aggression. At the same time we have arrived at the panoptical surveillance society and the age of thought control by those who control global flows of communication, images and symbolic production. The world of Edward Snowden is the world of George Orwell; 1984 has arrived; 3. Capitalism is reaching apparent limits to its extensive expansion. There are no longer any new territories of significance that can be integrated into world capitalism, de-ruralisation is now well advanced, and the commodification of the countryside and of pre- and non-capitalist spaces has intensified, that is, converted in hot-house fashion into spaces of capital, so that intensive expansion is reaching depths never before seen. Capitalism must continually expand or collapse. How or where will it now expand? 4. There is the rise of a vast surplus population inhabiting a “planet of slums,”4 alienated from the productive economy, thrown into the margins, and subject to sophisticated systems of social control and to destruction - to a mortal cycle of dispossession-exploitation-exclusion. This includes prison-industrial and immigrant-detention complexes, omnipresent policing, militarised gentrification, and so on; 5. There is a disjuncture between a globalising economy and a nation-state based system of political authority. Transnational state apparatuses are incipient and have not been able to play the role of what social scientists refer to as a “hegemon,” or a leading nation-state that has enough power and authority to organise and stabilise the system. The spread of weapons of mass destruction and the unprecedented militarisation of social life and conflict across the globe makes it hard to imagine that the system can come under any stable political authority that assures its reproduction. Global Police State How have social and political forces worldwide responded to crisis? The crisis has resulted in a rapid political polarisation in global society. Both right and left-wing forces are ascendant. Three responses seem to be in dispute. One is what we could call “reformism from above.” This elite reformism is aimed at stabilising the system, at saving the system from itself and from more radical re- sponses from below. Nonetheless, in the years following the 2008 collapse of the global financial system it seems these reformers are unable (or unwilling) to prevail over the power of transnational financial capital. A second response is popular, grassroots and leftist resistance from below. As social and political conflict escalates around the world there appears to be a mounting global revolt. While such resistance appears insurgent in the wake of 2008 it is spread very unevenly across countries and regions and facing many problems and challenges. Yet another response is that I term 21st century fascism.5 The ultra-right is an insurgent force in many countries. In broad strokes, this project seeks to fuse reactionary political power with transnational capital and to organise a mass base among historically privileged sectors of the global working class – such as white workers in the North and middle layers in the South – that are now experiencing heightened insecurity and the specter of downward mobility. It involves militarism, extreme masculinisation, homophobia, racism and racist mobilisations, including the search for scapegoats, such as immigrant workers and, in the West, Muslims. Twenty-first century fascism evokes mystifying ideologies, often involving race/culture supremacy and xenophobia, embracing an idealised and mythical past. Neo-fascist culture normalises and glamorises warfare and social violence, indeed, generates a fascination with domination that is portrayed even as heroic.

### Part 2 is the Solvency

#### I affirm Resolved: A just government ought to recognize an unconditional right of workers to strike.

#### “Government” means **What is GOVERNMENT**? 1. **The regulation**, restraint, supervision, **or control which is exercised upon** the individual members of an organized jural **society by those** invested **with** the **supreme political authority, for the good** and welfare of **the body politic; or the act of exercising supreme political power or control.**

That’s Black Law Dictionary ND [Black’s Law Dictionary. What is GOVERNMENT?”. No Date. Accessed 11/19/21. https://thelawdictionary.org/government/ //Xu]

#### That includes a revolutionary vanguard

Britannica ND [Encyclopædia Britannica, No Date, Encyclopædia Britannica is a general knowledge English-language encyclopaedia which is now published exclusively as an online encyclopedia, https://www.britannica.com/topic/vanguard-of-the-proletariat //WFU Partner Majed]

In Vladimir Lenin: Formation of a revolutionary party of Vladimir Lenin …the party as the “vanguard of the proletariat.” He conceived of the vanguard as a highly disciplined, centralized party that would work unremittingly to suffuse the proletariat with Socialist consciousness and serve as mentor, leader, and guide, constantly showing the proletariat where its true class interests lie.

#### “Ought” denotes futurity

English Grammar 10 [“Must and Ought to”; English Grammar; August 16, 2010; <https://www.englishgrammar.org/must-and-ought-to/> //BWSWJ]

Ought expresses ideas such as duty, necessity and moral obligation. It is not as forceful as must, but it is stronger than should. You ought to be punctual. We ought to help the poor. You ought to visit your friends once in a while. Ought generally points to present and future time. It can point to past time when it is followed by the perfect infinitive (have + past participle).

#### just means morally upright.

Google No Date [“just”. Google. No Date. Accessed 10/1/21. <https://www.google.com/search?q=just+definition&rlz=1C1CHBF_enUS877US877&oq=just+definition&aqs=chrome..69i57j69i60l3.2304j0j7&sourceid=chrome&ie=UTF-8> //Xu]

based on or behaving according to what is morally right and fair.

#### **The plan solves – a future Vanguard party recognizing an unconditional right to strike is key to resist** bourgeois consciousness and organize against Racial Capitalism

COFI 93 [COFI (Communist Organization for the Fourth International). Notes from the article – “The following is an article written by a former COFI supporter in Australia in 1993. The references to the WRT within the article refer to a former internal tendency within the Workers Revolution Group of Australia at that time. The article takes up in depth our understanding of the relationship between the task of building the proletarian revolutionary party and the development of working class consciousness.” “Excerpted—with slight editing—from the major Resolution passed at the WRG Conference, moved by the Revolutionary Party Faction.” “The Leninist Concept of the Revolutionary Vanguard Party”. Marxists.org. 1993. Accessed 11/7/21. <https://www.marxists.org/history/etol/newspape/socialistvoice/partyPR46.html> //Xu]

Communist Strike Leadership Necessary The basic concept of the party advanced by the Menshevik WRT is that “spontaneous militancy needs to be organised in a conscious Leninist revolutionary workers party” (Internal Bulletin No. 22). The essence of the WRT position is the refusal to counterpose revolutionary communist leadership to militant reformist consciousness. That is why the WRT exclaims with horror, “spontaneity is to be built on, consciously, not opposed” at the suggestion of the need to counterpose revolutionary leadership to all forms of militant reformist misleadership. Spontaneous militancy will always mature into a form of bourgeois consciousness and be defeated without the revolutionary vanguard party. The WRT’s view is that rank and file reformists can win real strike victories and that therefore the Marxist position of the need for communist strike leadership is “sectarian ultimatism”. This bears witness to the fact that the WRT’s semi-spontaneist views are a remnant of the post-war prosperity bubble and an expression of profound demoralisation. The revolutionary potential of spontaneous militancy was able to force the reformists to lead partial victories during the period of post-war prosperity. The worldwide defeat of the working class created the conditions of capitalist boom and defeat of the revolutionary party leadership that enabled the capitalists to grant temporary concessions, and the reformists to lead limited mobilisations. This period is now over. Already, strikes under the leadership of traitors can result only in semi-strikes and semi-victories—at best. This does not rule out a temporary period of wage militancy in an economic upturn or exceptional strike victories under the leadership of rank and file militants. These are exceptional cases. They do not apply under the current capitalist offensive. The general rule is that as the crisis of capitalism deepens, conscious revolutionary intervention will be necessary for even partial victories. For the WRT, it is no longer Marxism to consider revolutionary communist strike leadership an immediate practical necessity. To consider that as the historical crisis of capitalism deepens, “not a single workers’ industrial dispute can be won without Marxist leadership” will become increasingly the case is now for the Menshevik tendency simply “sectarian”. The Marxists have always considered the reformists to be a brake on the workers’ movement. For the centrists, reformism represents a partial movement forward, even despite the reformist leadership. The centrists consider the reformist leadership to be a blunt instrument to be driven forward by the “historical process” and the workers’ “spontaneous struggles”. Communists fight against reformism on the basis of the understanding that reformism is counterrevolutionary. Reformism leads not to strike victories, but to counterrevolution and fascism. That is why the world capitalist crisis reduces immediately to the crisis of workers’ leadership—because the betrayals of the reformists lead inevitably to the catastrophe of world war and fascism. The disastrous record of the last ten years in Australia alone is a forceful argument for the need for the revolutionary party. The labour bureaucracy has systematically isolated and betrayed every strike for the last decade. Since 1983, the bourgeoisie has relied upon their Labor lackeys to implement the mounting capitalist offensive. Without exception, the union bureaucracy has sabotaged and sold-out every one of the bitter strike struggles for the last ten years. Raising the illusion that strikes can win real victories under reformist leadership at present only weakens the resolve of the class to shrug the Labor Party monkey off its back and prepares fresh defeats. At the same time the opportunist tendency maintains that a general strike is necessary! For the last few years, the Workers Revolution Group has stressed again and again: isolation is fatal. A general strike is necessary to defeat the capitalist offensive and begin a workers’ fightback. But the need for revolutionary leadership only rises sharply with the escalation of the struggle. The general strike above all needs revolutionary leadership. If isolation is fatal and the general strike is necessary, why then is communist strike leadership suddenly not absolutely necessary? To raise the slogan of the general strike and fail to raise the need for revolutionary strike leadership means that the WRT has gone over to the manipulative politics of the middle class socialists. To call for more militancy as the way to win the needs of workers is fundamentally false. The reality is that it is a deception to pretend that militancy alone can win strikes and defend workers from the capitalist offensive. To pretend that militant rank and file action can win real strike victories despite the sell-out leadership union bureaucracy and the Labor Party means attempting to manipulate the rank and file into militant struggle in spite of the traitors. The fact is that the capitalist offensive can only be fought successfully by revolutionary workers, who understand that the capitalist system is incapable of maintaining generalised reforms and must be overthrown to defend workers’ living standards. Only conscious revolutionary workers, who understand that the sell-out role of the union bureaucracy and the Labor Party flows from the labour bureaucracy’s defence of capitalism, and who fight for the revolutionary program capable of uniting the whole working class and winning the rest of the class to the revolutionary party, can possibly lead victorious strike struggles under today’s conditions. The leadership of honest rank and file militants is not enough. In the epoch of capitalist decay, generally only revolutionary political struggle—a conscious revolutionary assault on the capitalist system—can win economic and industrial demands. This is doubly true now that the whole capitalist system worldwide is plunging towards depression and the capitalist class is on the offensive. Revolutionaries tell the truth to our class. Only the leadership of the revolutionary party, the re-created Fourth International, can lead today’s struggles to victory. Strikes under the leadership of traitors can at best be only semi-strikes and semi-victories when they do not lead to outright betrayal. Isolated strikes are doomed. Only generalised action offers any prospect of victory under conditions of mounting capitalist offensive. Even general strike action cannot permanently defend workers or win anything more than partial and temporary gains, without a revolutionary leadership. This is the essence of Trotsky’s point that: The general Marxist thesis “social reforms are only the by-product of revolutionary struggle” has, in the epoch of the decline of capitalism, the most immediate and burning importance. The capitalists are capable of ceding something only if they are threatened with losing everything. (Leon Trotsky on France, p. 79.) Revolutionary Leadership and the General Strike The deepening crisis of capitalism accelerates the tendency in all of the imperialist countries towards Bonapartism and military dictatorship, as the prosperity required to sustain parliamentary democracy runs into conflict with the need of the capitalist classes to deepen the exploitation of the working class. The historical laws of the decay of capitalism drive spontaneous militancy and “the laws of history are stronger than the bureaucratic apparatus” (Trotsky). That is the sense of understanding that the potential for general strikes, uprisings and revolutions matures “spontaneously” and with “historical inevitability”. The masses at all times try to blast a way forward onto the revolutionary road. This potentially revolutionary pressure increases as the crisis of capitalism deepens. But the key to unlocking this revolutionary potential remains in the hands of the leadership of the workers’ movement. Reliance on spontaneous militancy means only fatalism and abstention from the struggle to develop the revolutionary leadership necessary to challenge the reformists for hegemony in the international workers’ movement. It is not necessary to have revolutionary consciousness to begin a general strike: that is why the general strike is a united front demand. It is necessary to have revolutionary party leadership to win it. And it is generally necessary to have the revolutionary party to force the reformists to call the general strike. The reformists retreat from the general strike because the general strike raises the question of state power in its starkest form. When forced into action by mass pressure, the reformists fight to control the movement and contain the general strike to a bureaucratic semi-strike. Then they generally organise the betrayal. This was the case of the British general strike of 1926. The WRT disagrees. The Mensheviks believe that a real general strike (not a bureaucratic semi-strike like 1926 in Britain) is possible under reformist leadership. The WRT angrily challenges: “ Any comrade who wants to categorically deny that a general strike was possible [in 1975] (because there was no mass revolutionary party)”. As evidence that a general strike was possible, the WRT cites the “spontaneous mass movement” and the “spontaneous dynamic towards a general strike”. No communist denies that the potential for a general strike existed. The whole point is that the spontaneous movement lacked a conscious revolutionary leadership and so potential was never transformed into actuality. The WRT’s example of spontaneous militancy is in fact a perfect illustration of the need for the revolutionary party. The example of the general strike movement in 1975 is an example of the crisis of revolutionary leadership. It was not the fault of the working class that the general strike movement in 1975 was defused. It was not for lack of spontaneous militancy. It was because of the treachery of the Laborites and because the organised forces fighting for the general strike proved too small. Only the revolutionary party will fight consistently for the general strike: the middle class radicals and centrists will vacillate. It is for this reason that the revolutionary party must be built right now. In the context of a polemic in defence of the “spontaneous” revolutionary socialist consciousness of the working class, the clear logic of this position is to substitute agitation for the general strike for the fight for revolutionary leadership. Stimulating militancy and not the fight for class consciousness is the best way to form the revolutionary party. After all, the general strike is expected to “spontaneously” produce many workers who have been “made into revolutionary socialists”, which the revolutionary organisation can simply soak up by means of “recruiting workers revolutionised by objective circumstances”. This turns the world completely on its head. The revolutionary party is not built in anticipation of the general strike but in order to fight for the revolutionary tactics as the basis for the fight for revolutionary leadership. Without revolutionary party leadership, the probability of general strike action decreases dramatically. The task of the communists is not to “spark” actions like the general strike and then fight for leadership. No: the task of the revolutionaries is to fight for revolutionary leadership from the start, by exposing the reformists and at the same time proposing practical action based on the actual needs of the working class. The lack of revolutionary leadership “would pose very serious problems” states the WRT, tacking on the need for the revolutionary party to the argument for spontaneity. “Very serious problems” like … certain defeat! Trotsky was absolutely categorical on this question: A general strike is the sharpest form of class struggle. It is only one step from the general strike to armed insurrection. This is precisely why the general strike, more than any other form of class struggle requires a clear, distinct, resolute and therefore revolutionary leadership. In the current strike of the British proletariat there is not the ghost of such a leadership, and it is not to be expected that it can be conjured out of the ground … The fundamental importance of the general strike is that it poses the question of power point blank. A real victory for the General Strike lies only in the winning of power by the proletariat and the establishment of the dictatorship of the proletariat. (Leon Trotsky’s Writings on Britain) For this reason, it is sheer deception to raise the slogan of an indefinite general strike without carefully explaining to the advanced workers the revolutionary implications of the struggle, the possibility of betrayal contained in reformism, and the urgent need for a revolutionary party. Nevertheless, as Trotsky says, this party cannot be simply conjured up. That doesn’t mean that an indefinite general strike is futile. On the contrary, even an indefinite general strike that is defeated through betrayal by the VTHC leadership and the ACTU will have the invaluable effect of temporarily throwing back the bosses offensive. A tremendous radicalisation would begin in the working class. Many advanced workers would come to the conclusion that a new leadership of the working class is necessary. The general strike clears the ground for the formation of the revolutionary party. But the revolutionary party cannot be “conjured out of the ground” by producing “spontaneously revolutionary socialist” workers. This is metaphysics, not Marxism.

### Part 3 is the Method

#### The plan is a good idea but isn’t separate from the broader framework – justifications are a prior question to imagining specific mechanisms because they answer when, why and how that action takes place.

Our scenario analysis of the plan develops the political grammar for revolution – before we can discuss how to get there, we first must theorize what exact future we are fighting for

**Mass base cultivation must start through utopic communist demands like the aff that prophesize the end of Capitalism**

**Tonstad 16** (Professor Tonstad is a constructive theologian working at the intersection of systematic theology with feminist and queer theory. Her first book, God and Difference: The Trinity, Sexuality, and the Transformation of Finitude, was published by Routledge in 2016 and was named both as a best new book in ethics and a best new book in theology in Christian Century in the spring of 2017. “Debt Time is Straight Time” political theology, Vol. 17 No. 5, September 2016, 434–448, Edited for ableist language – “visible” changed to “recognizable” )

If debt time, as I have argued, is straight time, can other temporal modes of production and affiliation be imagined? If debt time depends on promises made in the past to subjugate the present and future, might other promising pasts (made available through the non-limitative, intergenerational relations that “homosexual production” sometimes promotes) redirect us toward other futures — futures located in queer time? Dreaming and day-dreaming allow for Kathi Weeks’s “utopian demand” that can teach us what a “different world” in which our dreams would come to life would look like.45 To reeducate our temporal desires, we need to “affirm what we are and will it, because it is also the constitutive basis from which we can struggle to become otherwise.”46 This affirmation is no mere acceptance of the past as it is enforced on us by the moral couplings effort-reward or debt-obligation. Rather, it is “an active intervention into our ways of inhabiting the past.” The utopic demand affirms a future in which the demand would no longer be utopic, while also estranging us from the ethos that there is no alternative.47Guy Hocquenghem writes, “Homosexual production takes place according to a mode of non-limitative horizontal relations, heterosexual reproduction according to one of hierarchical succession … another possible social relation … is not vertical but horizontal.”48 Horizontal temporal relations can join with new spatial orders to constitute a we. Franco Berardi notes that one of the reasons workers’ struggles have tended to disappear historically (as exceptions rather than lasting coalitions) is that “for struggles to form a cycle there must be a spatial proximity of laboring bodies and an existential temporal continuity. Without this proximity and this continuity, we lack the conditions for cellularized bodies to become a community.”49 Spatial proximity is not enough by itself — antiblackness in the United States is but one example proving the point — but it is essential to the formation of coalitions and new forms of solidarity. Without side-by-side relationships, spatial and symbolic, and without creating and becoming a we, we can neither understand “our” time aright to diagnose it, nor shift the future into a direction other than the one marked out by the insistence that there is no alternative. With such relationships, the door is open for possibilities for redirecting the trajectory of debt time that do not require “distance from dominant culture,” but instead can take their own “imbrication with contemporary socioeconomic forces”50 as a point of departure. The first step is to name the powers and in so naming call them up and make them visible [recognizeable]— materialization of the demons that ride and haunt us, seeking to destroy us. The next step is to reorder our temporal and spatial relations to each other to create a we that does not yet exist.The promise of queer prophetic performance Sleeping and waking cross each other: for we must wake from our dreams of dust and ashes in order to read the signs of the times, and we must sleep so that we can learn to dream new dreams. Between the space of sleep and waking, we encounter the memory of other times, a memory that may become grounds for a future that is no future. Naming the signs of the times (knowing the time in order to escape its grasp, refusing the future in order to redirect it) is a prophetic practice. Althaus-Reid says, “[I]f God is to be found in human relationships of economic and loving orders, it is obvious that the right not to be straight in a capitalist society and church has the goal of liberating God.”51 And who can set God free? We need a prophetic52 bodily reordering in which the untimely one will arrive and tell us, or better show us, the series of negations, intentional relations, and world-making activities that are our best hope for living love in a time of capital. These hopes weigh less than the Spirit of Gravity does on our shoulders (that always-already that the history of Christian capitalism imposes on us); with them we may hope for an easier yoke that would allow us to replenish our relations to ourselves and others. Prophets dream for us and against us; they sound the alarm and they fall into trances in which revelations are given to them. Prophets use speech, performance, visions, dreams, and bodies to shift the relations between structures of authority and embedded hierarchicalizations. Those manipulations, those reorderings of apparently fixed elements of the world, reproduce but can also reconfigure visions of orders of power.53 Most importantly, prophets contend with other prophets in inexplicable bodied acts,54 and prophets contend with the prophets of other gods.55 Prophetic contestation breaks open the “monopoly of actuality” that insists “there is no alternative.” “Blow the trumpet … sound the alarm!” “Your sons and daughters will prophesy, your old men will dream dreams, your young men will see visions. Even on my servants, both men and women, I will pour out my spirit in those days.”56 The passage from Joel points to the transgenerational and transgendered aspects of prophecy, and to the importance of dreams. Late capitalism denies us dreams, and late capitalism monetizes even our dreams. But prophets dream the dreams that the rest of us are denied. Prophecies “have been a means by which the “poor” have externalized their desires, given legitimacy to their plans, and have been spurred to action.” For this reason, prophecy had to be “replaced with the calculation of probabilities” — a calculation that depends on the postulate that “the future will be like the past.”57 We are seeking a future that is not like the past. Prophecy opens the possibility of the impossible beyond calculation and prediction. Prophecy can connect the partially open future with the overdetermined present to suggest strategies for redirection and recreation. Kirk Fuoss argues that performance always involves contestation; if he is right, the same would apply to prophetic performances.58 Prophetic performances may contribute to the development of what Valerie Rohy understands as queer non-causality: a temporality “whose beginnings are found in the future.”59 Rohy describes the way becoming gay may involve a circular causality that escapes linear historical determination. In the case of Oscar Wilde, for instance, “Wilde’s homosexuality both causes the gay male identity of the future and is caused by it.”60 Such alternative causalities may break the effort-reward, promise-fault couplings of determinate historical time — of debt time. If we become what is not yet possible, our becoming escapes the past’s determination without negating it. Queer performances that embody impossible futures may have the capacity to vivify and illuminate extant alternative imaginaries while challenging the “monopoly of actuality” exercised by debt time, especially if these queer prophetic performances distinguish themselves from capital not by their freedom from it61 but by practicing in relation to it. Performance can reeducate our imaginations (our dreams) in ways that do not pretend — as attenuated or homonormative gay culture sometimes does — that no other economic order is possible. We need to relearn the connections between sexuality and the economic order that lesbian feminists and black feminists recognized from the very beginning.62 We must enter desire’s school for reeducation so we may learn to name the present for the sake of a redirected future. In order to change our futures (to make them no future for the time of financialized capitalism and hetero-same reproduction), we need — as I have argued — spatial and symbolic side-by-side relations, we need to learn the nature of our time (and times), and we need to create the worlds that we need to learn to want through institution-building and the generation of publics.

#### Debate is a valuable pedagogical space for material analysis and scientific planning – our form of study uses historical synthesis to avoid error replication and catalyze a mass base transition.

Williams 18 [Carine, 7/30/18, “Why Black People Need Maoism in 2018”, *The Hampton Institute*, <http://www.hamptoninstitution.org/why-black-people-need-maoism.html#.XWwv7ZNKh0s> // KZaidi]

When they hear Maoism, many people think of China, Peru, and the Philippines. They picture peasants "surrounding the cities from the countryside." This is, of course, understandable, but a mistake. Maoism is not simply "everything that Mao did," or "everything that happened in China between 1949 and now." I have spent a great deal of my time writing working to dispel these sorts of myths, some peddled in an unprincipled fashion by anti-Maoists. Maoism is a living, breathing science. By science we mean something with universal principles that can be taken and applied by all who have a material interest in making revolution. In the United States, this is Black people, or the New Afrikan nation. It was not by accident that the original Black Panther Party (BPP) developed close relations with the revolutionary leadership of the People's Republic of China. Huey didn't go to China to play; he went to study and learn things that could be applied back home. Of course, he eventually degenerated in political line and practice, taking a right opportunist course along with Bobby Seale (always a centrist) and Elaine Brown (who guided the party, in his absence, into a mainstream political force that led into the arms of the Democratic Party). This opportunism in the highest expression of revolutionary sentiment, practice, and force in this country to date needs to be studied and ruthlessly criticized, yet we should be careful. We must place things in their historical context and ensure that we are able to divide one into two, meaning see the beneficial as well as the negative aspects of a thing but also realize that one aspect must be primary. The BPP was destroyed by a combination of factors: lack of a really scientific method of analysis and cohesive program of political education, failure to promote and apply the Marxist-Leninist principle of Democratic Centralism (debate inside the party, formation of a political line through this debate, and the upholding of this decision by all party members and organs), and a culture of liberalism that ended with comrades fighting comrades, thus opening the door for external factors (the FBI and other LE agencies) to play havoc and get cadre railroaded into prison and killed. We must study and learn all of these lessons, because when we develop another organization with the prestige, mass base, and power that the Panthers had, and we will, they will come for us all again. So, why do we need Maoism? Because we are against the most brutal, bloody, and vicious empire known to humankind. This country is looting and enslaving our class siblings all over the world. To overturn this order of things, to smash it and rebuild it in the interests of the revolutionary proletariat of the entire world, we must apply the synthesis of 200 years of systematic, organized class struggle, which is Marxism-Leninism-Maoism: the continuity of the revolutionary project that was Marxism-Leninism, with a rupture from the dogmatism and revisionism. Maoists do not uphold "Actually Existing Socialism" because a scientific analysis rooted in the principles laid down by the revolutionary movements and projects that gave us Marx, Engels, Lenin, Stalin, and Mao would demonstrate that stealing food from Filipino fisherfolk, like the People's Republic of China (PRC) has been doing, is 100% non-Marxist. This is in disagreement with many Marxist-Leninist organizations today, which uphold these things and other imperialist depredations carried out under the faded red banner of China. The Maoist argument is that Marxist-Leninist terrain has been spent, and the 21st century must learn from Maoism. "You haven't seized state power yet!" others cry. Indeed, and there has never been a truly Maoist party that has initiated armed struggle in the imperialist metro poles. This doesn't mean that Maoist principles cannot be applied to these countries, this means that we must be ever more creative in our application and ever more disciplined in our party-building efforts. Party building in the USA requires the careful and thorough cultivation of a mass base. Tens of thousands, even hundreds of thousands, of people must depend on and follow this party and participate in mass organizations before it can even begin to call itself a vanguard. This is what many who came out of the New Communist Movement of the mid-late 1970s failed to realize. The days of endless squabbling sects that fight over "mass bases" of a handful of other activists must be put to an end, and we must have a truly mass perspective. There is optimism in the spread of For the People (FTP) organizations and the development of the Organizing Committee for a Maoist Communist Party (MCP-OC) which has a more mass orientation and places primacy on the development of a class analysis and political line in the USA that is based in painstaking investigation and rooted in the aspirations and struggles of the most oppressed, along with a record of seeking to develop international solidarity and prison work. This, I believe, is the best hope for New Afrikan Maoists in the United States and I wholeheartedly encourage Black comrades to develop FTP-type organizations in their own communities under OC guidance. Even if this isn't done, at the very least studies in Maoism, studies in Maoist revolutions, and studies in Maoist theory are beneficial. After and during these studies, think about how it can be applied on your block and in your community. Learn about and be like Fred Hampton. Time is up for spinning our wheels; we must get together, unite on a principled and unshakeable basis, and mount a formidable resistance against decades and centuries-old oppression based in capitalism and white supremacy. I also encourage support and donation to the Hampton Institute as an invaluable resource in promoting revolutionary ideology and practice in the finest Marxist tradition.

#### The aff forwards a model of debate where iterative ballots over a season help us determine what a future communist world would look like - Academic debate and knowledge production is key to establish the conditions that makes revolution possible

Southall 10 (Nicholas Southall, doctoral student, University of Wollongong. “A Multitude of Possibilities: The Strategic Vision of Antonio Negri and Michael Hardt,” School of History and Politics and Sociology, 2010, <http://ro.uow.edu.au/cgi/viewcontent.cgi?article=4274&context=theses> )

Communism will remain associated with many of the horrors of the twentieth century. Yet the term is still used and understood as a name for the continuing proletarian revolution. A 'communist revival' in the English speaking academy has been indicated by the manifesto of students who occupied the University of California, Santa Cruz last year (Communique from an Absent Future: 2009) and the thousand participants in 2009 who paid to attend the 'Idea of Communism' conference at the University of London. My use of the word 'communism' is influenced and inspired by such actions as well as by Hardt and Negri's commitment to struggle over the meaning of words that have a powerful heritage and profound significance to the proletariat. Of course, the word is often linked to previous or existing 'communist states' and 'communist parties'. However, I agree with Hardt and Negri that these states and parties are generally manifestations of state capitalism rather than of communism. The errors and defeats of previous communist experiments and the dead hand of capitalist forms of praxes calling themselves communist continue to weigh heavily on the proletariat, making it difficult to speak of communism without 'corpses in our mouths'. Reclaiming and speaking of communism in a positive sense recognises the genuine communist heritage, which opposes authoritarianism, repression, war and terror, and illuminates its praxes of freedom, democracy, peace and love. Communism has been the enemy common to many neo-liberal, social democratic, fascist and socialist regimes and those identified as communists have been targeted and murdered in their millions during the global class war to break proletarian power. Today these communist victims and the victims of 'communism' 'haunt the world'. But communism is not a ghost, not even "a positive ghost" (Negri in Casarino and Negri: 2008: 200), rather communism is a movement, or movement of movements, and is very much alive. It is this living movement of movements that continues to threaten, challenge and go beyond capital. When I began this thesis, the world was at war and the people of the globe had been told: "Either you are with us or you are with the terrorists" (Bush: 2003). As terror and fear spread, there were growing threats to 'academic freedom' and 'freedom of speech' from those backing the Bush administration's agenda. When Negri was invited to speak at an academic conference in Sydney in 2005 he was publicly denounced as a terrorist in and by major media outlets and the event was cancelled (see Chapter One). Just as Negri was dragged in I977 from the academy in a previous 'state of emergency', to rot in jail under preventative detention for alleged terrorist activity, in the current global 'war on terror' others have fallen victim to a continuous 'strategy of tension'. Dr Andrej Holm and Dr Matthias B were arrested in Berlin in 2007 under anti-terrorist laws and alleged by police to have written, in academic publications, 'phrases and key words' also used by a militant group and of being intellectually capable of authoring the group's 'sophisticated texts'. Liliany Oblando, a Colombian sociologist, was charged in 2008 with 'rebellion' and 'managing resources related to terrorist activities' while investigating right-wing death squads. Both within the academy and outside it, this is a dangerous time to choose the latter option of 'either with us or against us' and to challenge those who seek to silence dissent, curtail critical debate and label opponents of capital, war and repression as 'traitors' and 'terrorists', while they defend an established order that is in fact terroristic. Hardt and Negri (2004: 33) assert that today "the majority of political scientists are merely technicians working to resolve the quantative problems of maintaining order, and the rest wander the corridors from their universities to the courts of power, attempting to get the ear of the sovereign and whisper advice"- Negri has also argued that "it is more interesting and more useful to make revolution than to write about it" (quoted in Hardt: 2005b: 29). Yet Hardt and Negri (2009: 127) are interested in the kind of academic strategic investigations that have "been forged by professors and students who take their work outside the universities both to put their expertise at the service of the social movements and to enrich their research by learning from the movements and participating in the production of knowledge developed there". In order to learn from proletarian theory and practice, throughout this thesis I provide in-depth analysis of Hardt and Negri's writings and discussions about real world politics, while testing their ideas out on various case studies. The thesis maps the development of Hardt and Negri's thought by offering a historical analysis that locates their writings in relation to class struggle and provides contextual analyses of their key ideas. To avoid becoming fixated on the power of capital requires a focus on how the proletariat's agency is a constituent element of social processes. Helping me to resist becoming a technician of social order or an adviser to the sovereign, I embark on this project as an active militant involved in class struggle. Since "it is not feasible to keep the values that a researcher holds totally in check", Bryman (2004: 21) argues that a researcher's politics will influence a whole variety of presuppositions that in turn have implications for the conduct of the research. Accordingly, Mies (1993: 68) advocates a "conscious partiality" in conducting research, while Mitropoulos and Neilson (2005) argue against "the apparently objective space of an ivory tower-whose recourse to a de-politicisation of knowledge marks the concealment of a politics". Proletarian politics is compelled to an incessant process of polemic, critique and intervention in social relations (Thobum: 2002: 453) and my politics have, to a certain extent, determined and will determine, my choice of research areas, choice of method, the analysis and interpretation of data and the conclusions of the thesis. My work is strongly inï¬‚uenced by my values, beliefs, experiences and the methodological assumption that the proletariat must free itself by collectively breaking with capital- Assisting this process, I believe, requires a mode of enquiry that promotes proletarian subjectivities, constructed on the multitude's movements of self-valorisation. The role of the communist intellectual is to embark "on the project of co-research aimed at making the multitude. The intellectual is thus not 'out in front' to determine the movements of history or 'on the sidelines' to critique them but rather completely 'inside"' where strategic investigation can be "a form of militancy" (Hardt and Negri: 2009: H8, 125). Marx's conception of proletarian praxis, that is the relation of theory and practice, explains how change comes about as people act and learn by taking action. "Struggles are the great teachers" about social developments, the "engines of revolutionary theory" (Negri: 2005b: xiii) and Hardt and Negri (2009: I28) advocate the "strategic production of knowledge" through a variety of routes as an "active engagement with the production of subjectivity in order to transform reality, which ultimately involves the production of new truths". They use the ideas of Raniero Panzieri and Cornelius Castoriadis (in Hardt and Negri: 2009: 24) to explain that "although Marxism is born as sociology, the fundamental task is to translate that sociological perspective into not just political science but really the science of revolution" and "revolutionary research constantly has to follow and be redefined by the forms of social movements". Following this advice, I look to the social movements of the multitude, to a wide variety of praxis as well as to theory, to understand Hardt and Negri's strategic vision, interweaving communist hypotheses with the proletariat's multitudinous struggles.

### Part 4 is the Cold War

#### Central Planning solves everything –

#### 1] Red Innovation –

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4.1. Innovation and social property. Innovation occurs as a result of a long and complex accumulation process of knowledge and creativity, where very rarely is a single individual solely responsible. This is an essentially social process in which a plurality of actors and institutions contribute in very different spheres and circumstances. The Austrian School presents an idealized image of innovation in capitalist economies, attributing it exclusively to the figure of the enterprising entrepreneur — whether in a disruptive sense (Schumpeter), or in a strictly coordinating sense (Kirzner). In fact, the entrepreneurial function develops within specific institutional frameworks and organized structures, both at the micro and macro levels. In this sense, a socialist economy has significant advantages for developing technological and business innovation, as opposed to a capitalist economy: i) socialism allows for greater and more efficient allocation of resources to R&D&I activities, thanks to centralized control of the surplus and the absence of sumptuous consumption and a rentier population; ii) there are no obstacles (property rights) to the free dissemination of new products and techniques; iii) the equal distribution of resources (which guarantees that no basic needs go unmet) allows for discovery and fuller development of talent, which likewise occurs when work is undertaken through tasks that are more balanced for the majority and less routine; iv) in allocating investment, more information is available and the criteria are more varied than mere expectation of profit; v) social ownership is more inclusive and participatory than capitalist enterprise in terms of generating and mobilizing knowledge (tacit or not) and encouraging innovation; vi) socialism does not impose short-term innovation cycles looking to generate products that can be commercialized in, say, four to six months, as is typical in capitalist economies. Under these favorable general conditions, the development of innovation in a socialist economy would unfold in three fundamental areas: i) Strategic planning: this traces the main lines of scientific, technological, and innovation research. Here would enter programs for the development of new technologies and infrastructures, as well as visionary projects that explore eventualities and future scenarios. This sort of research is carried out in universities, scientific academies, technological institutes, and other specialized centers in coordination with the business world. The process would consist in testing different alternative productive projects or techniques in order to verify results, in connection with the companies and sectors being served. ii) Companies: research, design, and innovation departments. iii) Business entrepreneurship: individuals and teams put forward proposals in hopes of securing financing. For any of these three areas, material incentives would exist that reward the degree to which the freely programmed objectives are achieved, in addition to purely social or moral incentives such as social recognition or professional and personal fulfilment. In the next section, we focus on how socialist entrepreneurship — something that the Austrian School considers impossible — would ostensibly work. 4.2. Ecosystems for innovation and entrepreneurship. In today’s most dynamic capitalist economies, entrepreneurship and business innovation are developed mainly in the so-called innovation ecosystems, which are institutional environments dedicated to promoting symbiotic interaction among the different actors involved in the process of creating and transforming companies and industries. This sort of institutional framework represents the antithesis of the liberal mythology where the individual capitalist–entrepreneur operates in a purely commercial environment, since these ecosystems are based on public institutions and resources as well as procedures that are not strictly mercantile.9 An efficient and dynamic socialist economy needs institutional environments capable of fostering and channeling the initiative of individuals with special talents to translate innovative ideas into business projects. It must be clear that an ecosystem of socialist innovation does not substitute for, but instead complements, the innovations developed by particular state institutions and programs (such as the transition to a new source of energy, new materials, etc.) as well 9 In the case of Spain, think tanks and capitalist consultants openly admit that “there is not enough private capital to invest in new companies, either through individual investment or through venture capital funds” (Price Waterhouse Coopers, 2015, 32). as innovations taking place in the industrial design departments of businesses. The actors involved in such an ecosystem are essentially the same as those participating in the equivalent ecosystems of the current capitalist economies. Principal differences would lie in the form of interaction among them (in the absence of mercantile links), their decision-making capacity (since no private property rights adhere), and the types of rules in force (including the incentive system). Among the main actors would be the following:

#### 2] Ecological Leninism –

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The impending catastrophe and how to combat it In the second week of September 1917, Lenin penned a long text called The Impending Catastrophe and How to Combat It. ‘Unavoidable catastrophe is threatening Russia’, it begins; the breath of death is over the land and ‘everybody says this. Everybody admits it. Everybody has decided it is so. Yet nothing is being done.’ World War I, the Urcatastrophe of the century, had haemorrhaged Russia and the other belligerent countries and, so it seemed, put civilisation itself on the deathbed. ‘The war has created such an immense crisis, has so strained the material and moral forces of the people, has dealt such blows at the entire modern social organisation, that humanity must now choose between perishing’ or transitioning to ‘a superior mode of production’. Russia stood before the spectre of famine. The war had so torn apart the country that all production apparatuses and logistical structures that would normally ensure basic provisioning were out of commission and, for as long as the war went on, beyond repair. As if that were not enough, heavy floods in the spring of 1917 washed away roads and railway lines. The crisis took a new plunge in August, when grain prices suddenly doubled and Petrograd faced the challenge of surviving without flour. ‘Famine, genuine famine’, one government official complained, ‘has seized a series of towns and provinces – famines vividly expressed by an absolute insufficiency of objects of nutrition already leading to death’. It was in this situation that Lenin wrote his text. In the run-up to October, he and the Bolsheviks were suspended in a moment of abysmal emergency: war behind them, war to the side of them, famine advancing. Lenin obsessed over the breakdown. ‘We are nearing ruin with increasing speed’, he would write; ‘no progress is being made, chaos is spreading irresistibly’; ‘famine, accompanied by unprecedented catastrophe, is becoming a greater menace to the whole country week by week’. What could be done about it? Part of the answer had already been provided by the states fighting the war. To prevent their food systems from collapsing utterly, they had interfered in markets in a manner that pre-war liberal doctrines would never have licensed. Governments from Paris to Petrograd had ‘outlined, determined, applied and tested a whole series of control measures, which consist almost invariably in uniting the population and in setting up or encouraging unions’ and rationing and regulating consumption. The situation had itself ‘suggested the way out’ by calling forth ‘the most extreme practical measures; for without extreme measures, death – immediate and certain death from starvation – awaits millions of people’. But those measures had an obvious limitation: they dealt with symptoms. The drivers of catastrophe were left untouched. The inter-imperialist war and its primum mobile – simple ordinary capital accumulation – were kept going, leaving procurement systems on the edge or, as in Russia, over it. Here, then, was Lenin’s wager: to take measures of the kind already instituted by the warring states, step them up a notch and deploy them against the drivers of catastrophe. First was to end the war. Second was to get the grain supplies under control, seize stocks from rich landowners, nationalise banks and cartels, end private property in the key means of production – a revolution, as Lenin constantly agitated in these months, to stave off the worst catastrophe, which was why it must not be deferred. Against the Kerensky government’s feeble attempts to restore order, he railed that ‘it is unable to avoid collapse, because it is impossible to escape from the claws of the terrible monster of imperialist war and famine nurtured by world capitalism unless one renounces bourgeois relationships’ and ‘passes to revolutionary measures’. At the same time, his rhetorical gambit was to profess that the means for achieving this were at hand, almost uncontroversial. ‘All the state would have to do would be to draw freely on the rich store of control measures which are already known and have been used in the past.’ Indeed, he alleged that any government that wished to combat the impending catastrophe, whatever its affiliation, would have to take those radicalised measures. The objective logic of the situation left no other choice. Now, if we, for a moment, put aside the very considerable historical complications known to everyone, we can see that the logic of the present situation, mutatis mutandis, is not all that dissimilar. So what kind of control measures could be envisioned? Here we must again stay at the level of a rough sketch. Yes, this enemy can be deadly, but it is also beatable States in advanced capitalist countries could claim to have acted on the dangers of pandemics the moment they made the following announcement: today, we are launching a comprehensive audit of all supply chains and import flows running into our country. With our amazing capacity for surveillance and data collection, we’ll shift from citizens to companies, open their books, conduct thorough inputoutput analyses (of the kind scientists already excel at) and ascertain just how much land from the tropics they appropriate. We shall then terminate such appropriation, by cutting off chains that run into tropical forests and, insofar as any can be classified as ‘essential’, redirect them to other locations. Every Noranda, every Skanska and Engie will be withdrawn. The time has come to pull in the claws of unequal exchange, now a menace to all. We shall pay for tropical areas previously devoted to northern consumption to be reforested and rewilded. This will compensate for lost export revenues – not as charity or even a drain on our budgets, but as a running investment in the habitability of this planet, an establishment and maintenance of sanctuaries on which our health depends. We are here simply adhering to the categorical recommendations from scientists (whom we’ll put on the stage for regular briefings on national television): There is an urgent need to stop deforestation and invest in afforestation and reforestation globally. In response to the viral outbreaks, billions of dollars are spent on eradicating the infection, providing services to humans, and developing diagnostic, treatment and vaccination strategies. However, no or less attention is given to the primary level of prevention such as forestation and respecting wildlife habitats. The world should realize the importance of forests and the biodiversity carrying deadly viruses – this from four China-based scientists, venting some despair amid Covid-19. Similar advice has been given for years. ‘The most effective way to prevent viral zoonosis is to maintain the barriers between natural reservoirs and human society.’ Barriers? There is a force at work in human society that by its very nature cannot countenance such a thing. But again, the scientists: ‘The most effective place to address such zoonotic threats is at the wildlife-human interface. A key challenge in doing this is to simultaneously protect wildlife and their habitats’ – the most effective, and the most costefficient. ‘Allocation of global resources from high-income countries to pandemic mitigation programs in the most high-risk EID [emerging infectious disease] hotspot countries should be an urgent priority for global health security’, says the Pike paper. It estimates a tenfold return on such investment. Written six years before Covid-19, it speculates on the damage a zoonotic pandemic could wreak on the world economy and finds that mitigation at the source – reining in trade-driven plantations, livestock, timber, mining – would be a fantastically optimal way of saving money. This is evidently not a guarantee that it will happen. But the northern states of our fantasy have now committed themselves to reason and proclaim: this is the right and necessary thing to do, for us and everyone else on this planet. The immediate beneficiaries will be people living in or next to tropical forests, always first in line for spillover. But our control measures will also spare ourselves from living under this Damocles sword to the end of our days. So the war on wild nature starts to wind down. This begins with a ban on importing meat from countries in or bordering on the tropics. Can there be anything more nonessential? And yet beef is, as we have seen, the one commodity most destructive to these wonderlands of biodiversity. Meat consumption in general is the surest way to waste land, and any extensive reforestation – combined with a protein-needy human population of ten billion or more – presupposes its reduction. Mandatory global veganism would probably be the endpoint most salutary for all. It would give some room back to wild nature and disengage the human economy from the pathogen pools; increased meat consumption is the fastest way to dive deeper. But as economies are currently operating, neither vegans nor vegetarians in the North go (as we often like to think) free of guilt: soybean, palm oil, coffee, chocolate flow as much, or even more, into our stomachs. Control measures for addressing spillover should not follow dietary guidelines, but latitudinal gradients and ecological knowledge. Given what we know about bats, their habitats must have priority, be it steak or flapjacks that stream out of them. Clearly it would be the state that would have to do this. No mutual aid group in Bristol could even hypothetically initiate a programme of this kind. ‘We need (for a certain transitional period) a state. This is what distinguishes us from the anarchists’, with Lenin – or with Wallace: ‘In the face of the potential catastrophe, it would indeed seem most prudent to begin placing draconian restraints on existing plantation and animal monocultures, the driving forces behind present pandemic emergence.’ Note the word ‘draconian’. Progressives of all stripes might shudder at it, but they should return to the chapter on the working day in the first volume of Capital – the ten hours’ day being the original victory of the proletariat, realised when enforcement finally became a little harsh, after all the laxities and prevarication of the early factory legislation. One doesn’t curb capitalist exploitation by carrots. Tropical forests have a recent counterpart to the ten hours’ day: the tenure of Lula. Between 2004 and 2012, deforestation in the Brazilian Amazon underwent its most rapid reduction in modern times, all the more remarkable for running against the trends in the rest of Latin America and Southeast Asia. By what means did the Lula governments accomplish this? By turning some degree of hard power on land-hungry capital: expanding protected areas, registering land properties, monitoring rainforests via satellites, enforcing the forest code and actually punishing those responsible for illegal logging. In 2012, the rate of deforestation stood 84 per cent below its peak of eight years prior. The country that holds two million species, or one tenth of the earth’s total, gave its forests a reprieve, slashing CO 2 emissions by some 40 per cent – perhaps the most impressive mitigation of zoonotic and climatic disaster on record. It didn’t last, of course. ‘Rosa Luxemburg has a great line about revolution being like a locomotive going uphill: if it’s not kept moving, it slides back, and reaction wins. The same can be said of reform. Lula’s two terms could have been a good first act in a transition toward something else; but there was no plan for a second act’, as one scholar of Brazil has noted. Instead came the far right and the abolition of every traffic light ever installed in the Amazon. What should really make one shudder is to think of the zoonotic and climatic legacy of Bolsonaro. Then what of China? After SARS, the state took some perfunctory measures to stem the wildlife trade, promulgating laws with loopholes big enough for rhinoceroses to walk through. It allowed for wild animals to be bred on farms (the Huanong Brothers). The protected species list was last updated in 1990 and omitted at least one thousand native species – including bats – the consumption of which was thereby unregulated, regardless of the public health consequences. Penalties were paltry, enforcement lax, ‘high profits and mild punishment driving the dealers’ to continue accumulating capital – until SARSCoV-2 prodded the state to ban the consumption of any wildlife, from freedom or captivity. Scientists and others worried that the legislation would fray this time too. One team from China writing in Science urged a permanent ban on consumption as well as possession, backed up by stiff penalties; Jingjing Yuan and colleagues went a step further and called for ‘sentence to life prison’ for anyone eating wild. Processing, transporting, marketing wild animals should be similarly sanctioned, the state maintaining a list of species authorised for trade – a list that could be periodically shortened – and sending inspectors into the markets on the fly (recalling the factory inspectors). What could be said against such a tough line? It has been argued that the moral norms of consumers should instead be coaxed into sobriety. The argument ignores three factors. First, if SARS was not enough to scare the clientele away from wet markets – research indicates that awareness of the risks did little to put it off – and if SARS-CoV-2 could not be relied on to do the job either, as some signs suggested – online sellers touted medicines containing rhino horn and other rare animal parts as cures for corona – then apparently one cannot entrust this question to individual enlightenment. Second, enforced laws change norms. The prohibition of child labour in factories and slave labour on plantations clinched their status as unacceptable practices; without those laws, some callous exploiters might have continued to this day. The edification may outlast the laws themselves. One of the few success stories Felbab-Brown can relate in The Extinction Market concerns the use of rhino horn for the making of the Yemeni daggers known as jambiyas. When demand soared in the 1970s, this market became a prime culprit in dragging rhino populations to extinction. But then someone intervened. Interestingly enough, the communist government of South Yemen was far more effective in eliminating demand for rhino-horn jambiyas by eliminating the demand for all jambiyas. It banned the possession of all weapons and aggressively collected them. In 1972, the jambiya ban was thus accompanied by a massive campaign to rid the country of them, with even rich and influential families targeted and forced to sell their daggers. When Yemen was reunited under the capitalist north, the communist principle survived. The ban ‘was not only effectively enforced by the [southern] government but ultimately internalized by the country’s population’. Rhinohorn jambiya went out of fashion. This deep into the sixth mass extinction, some similar courage to wage ecological class war would not seem inappropriate. Third, if there is something the corona crisis has taught, it should be that nudging consumers to voluntarily mend their ways is a strategy of the past. The German state didn’t beg its citizens to please consider living differently: it ordered the malls of Steglitz closed and locked the playgrounds in Kreuzberg. When there is a threat to the health or even physical existence of a population, one doesn’t leave it to the least conscientious individuals to play with the fire as they want. One snatches the matches out of their hands. Some have argued that a blanket abolition of the wildlife trade in China would cause financial losses and make people unemployed – figures between 1 million and an improbable 14 million have been floated – which is, of course, the excuse for every facet of business-as-usual. It could carry us all the way to Venus. But ending the wildlife trade is a responsibility for very many more nations than China. Even Germany has been identified as a central transit point for the global trade in pangolins. States have to figure out a way to extirpate this department of capital accumulation in toto; they have repressive powers to reallocate. Barack Obama purported to make crackdowns on wildlife trafficking a priority. Yet at the end of his second term, there were no more than 130 federal wildlife inspectors in the nation; only 38 of 328 ports of entry had such staff on site; their total number of detector dogs amounted to three. Compare this – from benevolent times – to the apparatus for stopping migrants. Here’s another overdue conversion: open borders to people and close them to commodities from the wild; turn ICE and Frontex and other fortress guards into agencies for shutting down the extinction vortexes. But law enforcement would require more than seizures on the border, which can incite suppliers to compensatory killing sprees. It is the middlemen that need to be netted en bloc. The main alternative to such an approach is to legalise the wildlife trade and encourage the ordered establishment of farms (the Huanong Brothers), but the curtain should now be down on this idea. Wild animals shouldn’t sit in cages. Breeding them in captivity and selling them on markets only whets the appetite for their meat, and experience shows that it’s all but impossible to tell the wild from the farmed; the former leaks into the latter, as long as the suck is there. Demand itself will have to be neutralised. Insofar as ostentation – the open display of status before peers and subalterns – is the purpose of wildlife consumption, criminalisation and actual law enforcement should hit where it hurts. Under the ground, public swagger is harder. This doesn’t mean, as Felbab-Brown is keen to stress, that hard state power is a silver bullet. But it is needed, and fast, she points out. ‘Unlike in the case of drugs’ – and most other illicit activities, one may add – ‘time matters acutely, especially when animals are being poached at extinction rates.’ Some reprioritisation is needed for repressive state apparatuses around the world. And then there is the question of bushmeat, an especially difficult nut to crack, which deserves its own separate investigations. One would wish that lifting areas and countries out of poverty would of itself make bushmeat obsolete, but alas, it might have the opposite effect: affluence can set the extinction vortex spinning. It has, on the other hand, been vociferously argued that one shouldn’t even consider taking the wild food out of the mouth of poor people. Unfortunately, that argument is self-defeating, for in the same moment bushmeat starts to endanger animal populations, it ceases to be a prop of food security and turns into its opposite: an exceedingly undependable protein source. Extinction exhausts it forever. The most viable palette of measures probably includes laws and their enforcement, a rollback of deforestation and ‘incentives for communities to switch to traditionally grown protein-rich plant foods’, such as ‘soy, pulses, cereals and tubers’ – breaking, in other words, the association of meat with the good life. That break begins in the richest countries. If anyone has a duty to lead and assist a global turn to plantbased protein, it is them. Needless to say, such measures would just be starters – local drivers of deforestation, for instance, would still have to be dealt with – and if they were all rolled out next week, infectious diseases wouldn’t thereby vanish at the snap of a finger. The treatment of symptoms will never stop being essential. And so one could look to Cuba, which seems to have spare capacity for every eventuality and continues to serve the world as a subaltern ambulance crew, including in this pandemic: in March 2020, fifty-three professionals in a Cuban medical brigade landed in Lombardy. They came to assist the swamped hospitals of one of the richest provinces in Europe. Of the dozen brigades dispatched over that month, others went to Jamaica, Grenada, Suriname, Nicaragua, Andorra, while Cuba itself agreed to receive a corona-stricken cruise ship turned away from other Caribbean islands – all in line with a tradition of ‘medical internationalism’ that never ceases to confound foes and experts alike. In the 2010s, this poor little nation had more health care workers stationed on foreign soil than the G8; more than the Red Cross, Médecins Sans Frontières and UNICEF combined. When Ebola lacerated West Africa in 2014, hundreds of doctors and nurses dashed off to the miasmic front lines; when Hurricane Mitch tore through Central America and Haiti in 1999, not only did Cuban staff pour in, but Havana initiated a scholarship programme for medical students from the disaster zones; when an earthquake crushed Pakistan in 2005, Cuba sent 1,285 health workers for a year. Canada sent six. In a time of chronic emergency, the world should thank its lucky star there’s at least one state with a tenuous link to the communist ideal still around.‘If anything real is to be done, bureaucracy must be abandoned for democracy, and in a truly revolutionary way, i.e. war must be declared on the oil barons and shareholders’: Lenin. His casus belli was their refusal to produce enough oil and coal. He wanted a war on the barons and shareholders to force the pace of extraction – Russia ‘is one of the richest countries in the world in deposits of liquid fuel’ – having no inkling of any adverse effects. Fuel scarcity was part of his breakdown. Our breakdown has the opposite profile, and so, if anything real is to be done, there will have to be a war with another aim: putting this industry out of business for good. This begins with a nationalisation of all private companies extracting and processing and distributing fossil fuels. Corporations on the loose like ExxonMobil, BP, Shell, RWE, Lundin Energy and the rest of the pack will have to be reined in, and the safest way to do that is to put them under public ownership, either through acquisition or – more defensibly – confiscation without recompense. Then their endlessly burning furnaces can finally be switched off. But they should not simply be liquidated, as in dismantling every platform, sealing the holes, closing the offices, sacking the employees and throwing the lot of the technology on the scrap heap. To the contrary, these units have a constructive task ahead of them. It’s already too hot on earth, and it’s getting hotter by the year, and there’s no end in sight to the heating unless emissions are cut to zero – but even then, it will still be too hot plus residual, potentially self-reinforcing heating in the atmospheric pipeline (the more of it, the longer mitigation waits), and so a worldwide cessation of fossil fuel combustion would not be enough. CO 2 would also have to be drawn out of the air. This has been apparent for at least a decade: everybody says this. Everybody admits it. Everybody has decided it is so. Yet nothing is being done. Nothing at all? There are a bunch of start-ups developing machines for negative emissions. One of them, the Swiss-based Climeworks, might be the most valuable capitalist company on earth these days – valuable as in doing humanity what could eventually be a life-saving service. With machines that look like large fans in boxes, Climeworks sucks air – it could be any air, anywhere. The air is led into a filter that captures CO 2 . Once the filter is saturated, it is heated to 100 degrees Celsius, and the result is pure, concentrated carbon dioxide. The trick as such is no magic, as it has long been applied in airtight rooms – submarines, space stations – where CO 2 has to be scrubbed and flushed out for people to breathe. What Climeworks has just demonstrated, however, is that this is the most promising technology for taking CO 2 out of the earth’s atmosphere – far more so than ‘bioenergy carbon capture and storage’, or BECCS, the speculative solution most in vogue in the days of the Paris agreement. There the idea was to establish gargantuan plantations to cultivate fast-growing trees, harvest them, burn them as fuel, filter away the CO 2 and store it under the ground. But more plantations are not what we need. BECCS would devour such monstrous amounts of land – somewhere like the equivalent of all current cropland to stay below 2°C – that tropical forests might well have to be wiped out. Direct air capture needs no land to grow anything. The contraptions can be placed on roofs. The main inputs they crave are electricity and heat, and because they are small and easily switched on and off, they can be affixed to the grid and turned on when there is an excess of wind and sun (weather-determined moments of overproduction often regarded as a drawback of renewables) and use waste heat from any other process (no shortage of that in urban environs). The CO 2 can be mineralised. It can be buried under the ground in solid form; indeed, since 2017, Climeworks is doing just this in Iceland. As with other novel technologies – solar panels spring to mind – prices will nosedive with mass production. A capitalist solution to a problem made by capitalism? If only. A capitalist company has to have a commodity to sell. With the exception of the pilot plant in Iceland, Climeworks and the other start-ups are turning their concentrated CO 2 into goods with exchange-value. It can be gas sold to greenhouses or soft drink producers (Coca-Cola in the case of Climeworks in Zürich); it could go into microalgae or liquid fuel, possibly even for airplanes. Such commodities bury no CO 2 . They capture it and pass it on for release elsewhere, so that a profit can be made – or, as Nature reported regarding another start-up, Carbon Engineering, run by the famed scientist-cum-entrepreneur David Keith: ‘That CO 2 could then be pressurized, put into a pipeline and disposed of underground, but the company is planning instead to use it to make synthetic, low carbon fuels.’ And how could it plan otherwise? Just throwing the CO 2 away, locking it up in cellars where it must never again be touched, is no way to accumulate capital. It negates the logic of the commodity, because non-consumption would here be the innermost essence of the operation. As Holly Jean Buck shows in After Geoengineering: Climate Tragedy, Repair, and Restoration, a primer and clarion call that should be obligatory reading for anyone minimally concerned with planetary futures, this is the contradiction every direct air capture must run into: if it stays inside the commodity form, it cannot make good on its promise of negative emissions. It will recycle CO 2 , not tuck it away. To scale up these machines to the level where they would make their designated difference – supplementing zero emissions with drawdown – they would have to function as vacuum cleaners, sucking up carbon and putting it out of circulation, as a non- or even anti-commodity. How could such a decontamination of the biosphere run on profit? Where would the increment in exchange-value come from, in amounts sufficient to keep the clean-up going like any other department of accumulation? No one has yet come up with a plausible answer. Buck works through the logic and finds only one way out: the state. Other students of direct air capture have reached the same conclusion. It seems to inhere in it – if the Climeworks model turns out to have some unknown disadvantage, if something else comes to the fore as the superior tech, if there will ever be any negative emissions not growing from land, the same conundrum will reappear: resell the waste and forfeit the purpose, or respect the negative use-value. It’s the productive force or the property relations. And to scale up, one would need a lot of money. That money should come from those who carry historical responsibility for releasing the CO 2 in the first place. There would also need to be massive complexes of technical expertise, drilling and seismic skills, infrastructures for transporting concentrated CO 2 , empty holes in the ground for burial vaults, organisations of supranational size … Who has all these things in ample possession? The oil barons and shareholders, of course. Nationalise them, Buck proposes – not just for ‘getting rid of these corporations, as we might like to, but transforming them into companies that deliver a carbon removal service’. Make them public utilities for restabilising climate. In something of an understatement, Buck adds: ‘There will be a lot of struggles to engage in here.’ But now imagine that states were in fact determined not only to stop the drivers of catastrophe but to put them into reverse gear, and so they expropriated every single fossil fuel company and restructured them into waste disposers, while those already state-owned received the same directives – then we would really be on the way to zero emissions and further: towards 400 parts per million, 380, 350 … It would be some repair to match the tropical rewilding. The demand for nationalising fossil fuel companies and turning them into direct air capture utilities should be the central transitional demand for the coming years. But, needless to say, it would make no sense if CO 2 were still belching out into the atmosphere: emitting and capturing would be a bizarre dissipation of resources to no avail. Everything begins with draconian restraints and cuts. They alone could pave the way for actual drawdown; the sooner they start, the less need for a secondary mega-infrastructure of clean-up. The problem could also be attacked from another angle: not supply but demand, rather like in the first phase of the Covid-19 pandemic. Then it was demand, above all in the transport sector, that went off a cliff and pulled emissions along. In late April 2020, Scientific American publicised the forecast that total global emissions would fall by no more than 5 per cent during the year – in spite of the spring drop by one fourth in China and roughly one fifth in the US – as economies were expected to rebound in the summer and autumn. The journal noted that as record-breaking as a 5 per cent reduction would be, it would still fall short of ‘the 7.6 per cent decline that scientists say is needed every year over the next decade to stop global temperatures from rising more than 1.5 degrees Celsius’. Nearly 8 per cent every year – a far cry indeed from the expected 2020 hiatus (if not from the initial months-long collapses). What would that require? Comprehensive, airtight planning. Everybody knows this. Few say it. One can obviously not rely on spontaneous cessation of demand, or on people just quitting travel; there would have to be a continuous substitution of one kind of energy for another over the transitional period – or, ‘a single economic plan covering the whole country and all branches of productive activity. This plan must be drawn up for a number of years, for the whole epoch that lies before us’, to cite Leon Trotsky. One can of course find this idea so repugnant that one would rather give up on the climate of the earth. And that is indeed the choice the dominant classes and their governments wake up to make every morning. Regardless of whether the problem is attacked from the supply or the demand side, the race to zero would have to be coordinated through control measures – rationing, reallocating, requisitioning, sanctioning, ordering … – so as to fill the gap after fossil fuels. The substitutes themselves are in no need of elaboration. The literature on the Green New Deal and renewable energy roll-out and climate wartime mobilisation is extensive enough to guide a transition several times over. Here we truly are in the situation of Lenin’s September text: everybody knows what measures need to be taken; everybody knows, on some level of their consciousness, that flights inside continents should stay grounded, private jets banned, cruise ships safely dismantled, turbines and panels mass produced – there’s a whole auto industry waiting for the order – subways and bus lines expanded, high-speed rail lines built, old houses refurbished and all the magnificent rest. ‘The ways of combating catastrophe and famine are available’, approaching common knowledge. ‘If our state really wanted to exercise control in a business-like and earnest fashion, if its institutions had not condemned themselves to “complete inactivity” by their servility to the capitalists, all the state would have to do’ would be to roll up the sleeves. Another part of Lenin’s logic applies too: any government that would ‘wish to save Russia from war and famine’ would have to get down to this kind of work. be the central transitional demand for the coming years. But, needless to say, it would make no sense if CO 2 were still belching out into the atmosphere: emitting and capturing would be a bizarre dissipation of resources to no avail. But the lingering conclusion from our initial comparison between corona and climate is that no capitalist state is likely ever to do anything like this of its own accord. It would have to be forced into doing it, through application of the whole spectrum of popular leverage, from electoral campaigns to mass sabotage. Left to its own devices, the capitalist state will continue to attend to symptoms, which, however, must eventually reach a boiling point. One can imagine that in the next years and decades, storms will bite into property, droughts tear apart supply chains, crop yields halve, heat waves enervate labour productivity to the extent that the timeline of victimhood catches up with the dominant classes. The second contradiction will then be upon them. States might no longer be able to just parry the impacts, but feel compelled to safeguard the background condition before it crashes irretrievably. Judging from the reaction to Covid-19, they will grasp for a control measure that can flatten the curve at once, and there is one such known in the libraries of science: solar geoengineering. Spraying sulphate aerosols into the atmosphere is the single kind of injection with a potential to instantly reduce planetary fever. However large in scale, direct air capture would need decades to bring temperatures down; sulphate aerosol injection can cut insolation from one month to the next. Year after year of business-as-usual, this is the pseudo-solution that sneaks up on us like a thief in the night.Indeed, under the cover of the pandemic, in mid-April 2020, one of the largest experiments in geoengineering so far was carried out on the Great Barrier Reef, then subject to the third outbreak of mass bleaching in five years (did anyone notice?). Scientists were authorised by the state to spray trillions of nano-sized ocean salt crystals into the air from the back of a barge. The hope was that these particles would make clouds brighter, so they would reflect more sunlight away from the ocean and shield the reef from the heat. The team told the Guardian they could see corals ‘bleaching around us’ as they bobbed over them. This is a technology distinct from sulphate aerosol injection, namely marine cloud brightening, potentially deployed on a local or regional scale by a state such as Australia, which, numerous monumental disasters notwithstanding, cannot bring itself to impose any control measures on coal extraction. The logic is robust. As one of the sharpest scholars in the field, Kevin Surprise, has argued, solar geoengineering might well be launched on a planetary scale as a fix against the second contradiction, because capitalist states appear constitutionally incapable of going after the drivers. It is fairly widely known that such intervention in the climate system could switch the planet onto another track towards catastrophe. Meanwhile, the corals keep bleaching, the swarms forming, the ice melting, the animals moving. A pestilential breath devastating humanity There has been a lot of talk about ecological Marxism in recent years, and with the chronic emergency over us, the time has come to also experiment with ecological Leninism. Three principles of that project seem decisive. First, and above all, ecological Leninism means turning the crises of symptoms into crises of the causes. From August 1914, this was, of course, the thrust of Leninist politics: converting the outbreak of war into a blow against the system that engendered it. Our Great War is not an actual war between armies, nor a singular event that can be concluded or paused after half a decade: this emergency is chronic, which means that crises of symptoms will ignite again and again, and every time they do, the strategic imperative must be to switch energies of the highest voltage against the drivers. It is difficult to see how else the conditions can ever be ameliorated. Has anybody got another idea? Oh yes: make clouds and invent vaccines; block solar radiation and track the movements of people. At their best, such proposals amount – to borrow from Greta Thunberg’s favourite metaphor – to surviving inside a burning house by drinking lots of cold water. Virtually by definition, the most classical Leninist gesture is the only one that can point to an emergency exit. It is worth re-emphasising just how central the category of catastrophe was to the evolution of revolutionary Marxism. In her polemics with Bernstein, Luxemburg never tired of stressing it. She has become most renowned for the sound bite ‘socialism or barbarism’ but, as Norman Geras has shown in a superb exegesis, that deep dichotomy structured her theory and praxis all the way from the battle with Bernstein to her death at the hands of the Freikorps. One year into the war, she warned that humanity faced a choice between ‘the destruction of all culture, and, as in ancient Rome, depopulation, desolation, degeneration, a vast cemetery’ – or victory for ‘the conscious struggle’ against the imperialism that drove the war. ‘Wading in blood and dripping in filth’, capitalist society has become ‘a pestilential breath, devastating culture and humanity’. That peculiar type of society now ‘endangers the very existence of society itself, by assembling a chain of devastating economic and political catastrophes’; in its present phase, the expansion inherent in capital ‘has adopted such an unbridled character that it puts the whole civilisation of mankind in question’. Luxemburg expected world war to become a ‘permanent’ state of affairs. It didn’t, and here the differentia specifica of the chronic emergency must again be underscored: it works itself out through biophysical processes that cannot be fought or negotiated to an end. One does not bomb out or bargain with the radiative forcing of CO 2 . That forcing is an immutable function of the quantity of the gas in the atmosphere, which means that this pestilential breath has another order of permanency and aggravation – until the moment of deliberate intercession, still only hypothetical. Following Geras’s reading of Luxemburg, we can then say that ‘barbarism’, depopulation, a vast cemetery really are the inevitable ends of a capitalism left to itself (here precluding the long-term effectiveness of solar geoengineering as a stand-alone measure). But writing in 1975, he recoiled from this conclusion as excessively apocalyptic. ‘Ecological catastrophe may, today, be invoked to lend that vision plausibility’, he noted in passing; half a century later, there is scant need for the caveat. This, then, is the syntax of revolutionary Marxism, present already in the first section of The Communist Manifesto: the fight ends ‘either in a revolutionary reconstitution of society at large, or in the common ruin of the contending classes’. There can be little doubt about which of the two outcomes is currently the more likely. Hence the accentuated ‘conditional mood of the probability of a catastrophe that there is still time to forestall. Things will end up badly, if … But they can (still) be sorted out …’, as another thinker from the same tradition, Daniel Bensaïd, distils the predicament. It was because Luxemburg threw herself into efforts to forestall further catastrophe that she, for all their disagreements, ended up on the same side as Lenin. A second principle for ecological Leninism can be extracted from their position: speed as paramount virtue. ‘Whether the probable disaster can be avoided depends on an acute sense of conjuncture’, writes Bensaïd, who reconstructs the crisis of September and observes that ‘waiting was becoming a crime’. Or, with Lenin himself: ‘delay is fatal’. It is necessary to act ‘this very evening, this very night’. The truth of these assertions has never been more patent. As anyone with the barest insight into the state of the planet knows, speed, very regrettably, because of the criminal waiting and delaying and dithering and denying of the dominant classes, has become a metric of meaning in politics. ‘Nothing can now be saved by halfmeasures.’ Third, ecological Leninism leaps at any opportunity to wrest the state in this direction, break with business-asusual as sharply as required and subject the regions of the economy working towards catastrophe to direct public control. It would mean that ‘one part of the population imposes its will upon the other part’, to speak with Engels. Nothing from the past decades of stalled transitions indicates that ExxonMobil would like to metamorphose into a cleaner and storekeeper of unsalable carbon, or that meat and palm oil companies would gladly let their pastures and plantations be rewilded. It appears tautologically true that an actual transition would require some coercive authority. If anarchists would ever wield influence in such a process, they would quickly discover this circumstance and, just like anybody else, have to avail themselves of the state. But what state? We have just argued that the capitalist state is constitutionally incapable of taking these steps. And yet there is no other form of state on offer. No workers’ state based on soviets will be miraculously born in the night. No dual power of the democratic organs of the proletariat seems likely to materialise anytime soon, if ever. Waiting for it would be both delusional and criminal, and so all we have to work with is the dreary bourgeois state, tethered to the circuits of capital as always. There would have to be popular pressure brought to bear on it, shifting the balance of forces condensed in it, forcing apparatuses to cut the tethers and begin to move, using the plurality of methods already hinted at (some further outlined by the present author in How to Blow Up a Pipeline: Learning to Fight in a World on Fire). But this would clearly be a departure from the classical programme of demolishing the state and building another – one of several elements of Leninism that seem ripe (or overripe) for their own obituaries. On the other hand, the chronic emergency can be expected to usher in pronounced political volatility. ‘The deeper the crisis, the more strata of society it involves, the more varied are the instinctive movements which crisscross in it, and the more confused and changeable will be the relationship of forces’, to quote Georg Lukács. The rather startling measures used to combat the spread of Covid-19 might have been a foretaste. Who knows what openings other moments of impact might bring. In some, popular initiatives may rise to prominence. The 2013 edition of the ‘worldwide threat assessment’ compiled by the US intelligence community warned that climate disasters risk ‘triggering riots, civil disobedience, and vandalism’; similar predictions are legion. If or when they are fulfilled, the mission of ecological Leninists is to raise consciousness in such spontaneous movements and reroute them towards the drivers of catastrophe. Hence the heightened relevance of the slogan that for Bensaïd ‘sums up Leninist politics: “Be ready!” Be ready for the improbable, for the unexpected, for what happens.’ It includes a readiness to, with Lenin’s own words, ‘set to work to stir up all and sundry, even the oldest, mustiest and seemingly hopeless spheres, for otherwise we shall not be able to cope with our tasks’. If the matter is exigent, the material at hand must be used. On this view, ecological Leninism is a lodestar of principles, not a party affiliation. It does not imply that there are any actual Leninist formations capable of seizing power and implementing the correct measures – the world has never been shorter on them, and most of the few that remain show overt signs of infirmity. The old Trotskyist formula ‘the crisis of humanity is the crisis of the revolutionary leadership’ must be updated. The crisis is the absence – the complete, gaping absence – of any leadership. The seed bank exists in an arid space approaching empty desert; anything brought out from it would have to be genetically modified to grow under the present sun and watered by subjects inventing themselves anew. Two elements do, however, as we have argued, appear essential. The basic make-up must harbour a predisposition for emergency action and an openness to some degree of hard power from the state. Anarchism detests the state; social democracy shrivels in catastrophe. But there is no reason not to experiment with ecological Luxemburgism, or ecological Blanquism, or Guevarism, or indeed Trotskyism … nor is there reason to give up on the sheer deductive force of revolutionary Marxism: ‘The inherent tendencies of capitalist development, at a certain point of their maturity, necessitate the transition to a planful mode of production, consciously organised by the entire working force of society – in order that all of society and human civilisation might not perish’, again with Luxemburg. But ‘necessitate’ does not mean ‘preordain’. Something can be necessary and yet never come about.

#### 3] Prevention mentality –

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Today’s ecological crisis is directly linked to our economic development model, based on continuous growth (Daly et al. 1997; Schnaiberg & Gould 2000; Garcia 2004). Together with its current system of postFordist industrial production (Gorz 1997; Lipietz 1988; Alonso 1999) and its high entropy generation (Georgescu-Roegen 1975), our consumption model plays a determining central role (Alonso 2006). While the human species is intrinsically characterized by exosomatic consumption (Martínez Alier & Schlüpmann 1991; García 1995b) to meet their basic needs, patterns of consumption based on positional goods (Hirsch 1976; Alonso 2005) must be added, as well as requirements arising from a capitalist production system in which maximum profitability is the cornerstone of the consumption model (Altvater 1994; Riechmann 1998; Fernández & Riechmann 2006) and in which room is easily made for throwaway practices (Silva 2007) and where the priority as far as waste is concerned is disposal and not reduction. Overall, this model augments the ongoing consumption of resources and the increase in waste, and it generates an illusion of unlimited growth and of life as detached from its biophysical basis, life taking place in cultural bubbles that allow people to feel relatively independent from the inconvenience of the reality they create (Garcia 2006; Riechmann 2012). Although the volume of MSW is relatively small compared to other waste types,1 it is increasingly important as a result of its steady rise in recent years due to population growth and consumer habits. Moreover, demographic concentration in urban areas means that sustainable waste management methods are a necessity including, as an essential element, prevention and waste treatment or disposal. The solution implemented, its environmental and social costs, and all the energy and material costs introduced in the elaboration process emerge as relevant issues. This waste depicts both sides of the same coin, the previous and subsequent phase of the same process: productionconsumption. Hence, the importance of reduction, minimization, reuse and recycling is directly linked to sustainability and degrowth and, consequently to the future of the planet and the human species (Almenar 1993; Jiménez 2001; Ludevid 1997). Waste Policy and Management Practices as the Basis of Landfill Culture Considering the objectives laid out in subsequent Planes Nacionales Integrales de Residuos—PNIR (National Comprehensive Waste Management Plans) or their regional equivalents, PIR—all of them consistent with sector provisions and different EU frameworks or strategies for waste prevention and recycling as of the late 1980s, the situation does not seem to have improved all that much or at all for that matter. Apparently, the waste policy implemented so far has focused on the second area of the social problems caused by waste, i.e. waste treatment and management once waste has been generated. The first level, waste prevention2—potentially with more eco-social benefits—has been relegated insofar as action leading to slowing down resource consumption is concerned and subsequently the treadmill of production (Schnaiberg & Gould 2000). Conversely, the second level—management—is fostered, since it introduces mechanisms that accelerate the treadmill and therefore growth, in turn postponing social conflicts related with tackling the problem by either “burying” or “dissolving” it. In any case, the current situation shows evidence of the non-existence— from the outset of the MSW problem—of efficient intervention or regulation by public authorities in putting mechanisms of interaction in place, via public debate and social and economic commitment, among all stakeholders (producers, manufacturers, distributors, services, users-consumers, the administration itself) throughout the sequence of MSW generation and management. Consequently, given the heterogeneity of the stakeholders, the lack of real channels of interaction and engagement between them, and administrative laissez-faire, a kind of “external cascading effect” takes place, leading to socially suboptimal decisions in the different phases of the sequence and in which accountability gradually fades away. Thus, from raw material extraction and processing for consumer goods production to waste generation and perhaps waste recovery using some valorization techniques, MSW is passed on from one agent to the next in a chain which is not necessarily linked in a rational way. None of these agents has per se incentives to consider the effects of their activities on the following links along the chain. At the production and marketing stage, the volume and composition of the waste generated are determined. These decisions are typically made without taking the consequences in subsequent phases into account. In terms of volume, if generating less waste has no direct beneficial effects on the bottom line, then this cannot be expected to favour reduction at the source, which, as noted above, should be one of the priorities in comprehensive waste management. Moreover, the material composition of products can be crucial to facilitating subsequent recycling processes (interaction between production technology and recycling technology). In turn, consumers play a key role in sorting waste at source, but as this is a nuisance and a cost in terms of inconvenience (sometimes fairly noticeable), if they are not compensated for it (perception of improvement), consumers cannot be expected to make much of an effort. If the companies responsible for waste transport and treatment are governed by purely individual economic criteria, they cannot be expected to consider the environmental consequences of using one method or another into their decisions. Recycling means savings in disposal or incineration costs, which has an impact on public administration (or, where applicable, on the company responsible for disposal) and not on waste generators. Besides, recycling generates an environmental benefit which is not directly perceived by individual producers and consumers. Under these circumstances the market can only be expected to make poor, relatively inefficient recycling efforts (André and Cerdá 2006). In turn, the political and administrative rhetoric builds up its panoply by setting a number of goals, which are always repeated and postponed, programme after programme. In Spain’s case, the current PNIR 2008–2015 aims “to further a proper waste management policy, reducing generation and promoting adequate treatment: prevention, reuse, recycling, capitalization and disposal. It also seeks to involve all public administrations, consumers and users, for them to live up to their responsibility, encouraging the creation of infrastructures that ensure suitable waste treatment and management in the places nearest to generation sources”. In line with Strategy 2020 and the “Roadmap to a Resource-Efficient Europe”, the plan lays down the following goals: 1. Comprehensive Approach and Integrated Management: policy towards zero discharge. 2. Commitment to sorting at source. Implementation of prevention, reduction and recycling programmes. 3. Self-sufficiency and proximity in waste management. Processing waste closer to the sites where it is produced. 4. Coordination of relevant bodies, as an instrument for innovation; ongoing improvement and generation of synergies in waste management. 5. Establishment of a system of awareness-raising and communication with citizens. 6. Visibility of costs, transparency, regional balance and social justice. In short, the objective pursued for the term of the Plan that will expire next year is to modify the hierarchy of waste management options. Five options are considered: 1. Prevention. 2. Reuse preparation. 3. Recycling. 4. Other recovery types, including energy recovery. 5. Disposal (PNIR 2007). Today, the most widely used method of waste management is disposal, prevention being the very last choice. In theory, this pyramid, having disposal as its wide basis and prevention as its sharp end, should be inverted. But according to the latest data published by the National Institute of Statistics and Eurostat, the picture is rather bleak and contradicts programmatic expectations, even though a quantitative reduction for the last period is clear. The sharp drop in MSW is directly linked to waning consumption following the onset of the 2007 economic crisis and the subsequent slowdown in growth. Figures from the Survey on waste collection and treatment for 2011 show that 23.3 million tonnes worth of municipal waste was collected, which accounts for a 17.5% reduction in absolute terms compared to 28.2 million tonnes collected in 2007, when the crisis began. In population terms, for the period 2007–2011 the decrease in MSW per inhabitant went from 1.58 kg/day to 1.32 kg/day, which as of 2011 placed Spain below the European average as shown in Fig. 11.1, but note that data for Spain are estimates. Over those years, Spain fell from 9th position in kg/inhabitant per year to 16th position (Fig. 11.2). For the purposes of this chapter, data on the evolution of waste in Spain by type of collection is also significant. From the 23.3 million tonnes collected in 2011, 18.8 million tonnes were mixed waste, that is residual waste fraction plus unsorted waste generated by shops, offices, services and street cleaning, and only 4.5 million tonnes were collected from what we know as “recycling containers” (glass, paper and cardboard containers, batteries, clothes, etc.) as well as waste disposed of in Household Waste Recycling Centres. This shows the low percentage of waste sorting in our country, which in recent years has decreased by 3.6% (Fig. 11.3). Another important aspect is the composition of the MSW: synthetic materials and packaging waste account for a greater share in the dustbin, with a steady increase, reflecting a continuum in consumer habits and in the items that make up this consumption. As shown in Fig. 11.4, 30% of MSW can be considered packaging waste. Yet, almost half of our dustbin is filled with fermentable organic matter while the other half consists of paper and cardboard, 18.7%; plastics, 14%; glass, 6.9%; and the rest includes textiles, rubber, leather, inert materials, bulky items, batteries, etc. An important conclusion can be drawn from this: half of the rubbish bin could be composted, and yet only two million tonnes of this valuable organic waste by-product is collected in our country. The reason is none other than the separation in homes of the “residual fraction”, which includes not only organic waste but other materials such as napkins, wood, textiles and some packaging, batteries, plastics, metals, etc. making it impossible to convert organic waste into quality compost, since only fermentable matter sorted at source can be processed. In this regard, just a few cities in the autonomous regions of Catalonia and the Basque Country have started collecting organic waste through a dedicated bin liner, the fifth bag. Other towns (between 270 and 350 municipalities in Spain) have implemented an efficient door-to-door collection system which has proved satisfactory despite initial reluctance, as it has not only reduced household waste per capita and increased recycling but also contributed to education and social innovation, combining ethics and individual and collective actions with greater user involvement induced by institutional public measures (Casado da Rocha 2013). Landfill culture seems to have settled down in Spain on the basis of an exiguous institutional interest in developing MSW policies and practices involving education for more sensible consumption. Thus, according to the data, the treatment given to MSW is significant: two-thirds of our waste in Spain ends up in landfill, as shown by Fig. 11.5. So basically, “We are burying valuable materials such as organic matter in landfill sites or burning them in incinerators, when they are fundamental for our soil, or failing to reuse metal and plastic packaging which is perfectly reusable or recyclable. It is absolutely ludicrous to dispose of such resources” (Ecologistas en Acción 2013:11). The recent Waste and Contaminated Land Act, which is a transposition of the EU Waste Framework Directive, sets recycling half of the waste as the aim to accomplish for this period. A mission impossible for our country unless the whole waste management process is changed from scratch (Fig. 11.6). Although they apparently point to a laissez-faire political attitude, these data also prompt an analysis of their causes and of the practices underlying the MSW policy itself and its management. In this regard, policies are determined by three interconnected elements that define them structurally and that, to a great extent, are embedded into the matrix of wasterelated socio-ecological disputes. First of all, there is the “non-existent” waste policy, which could be described as chaotic; as pointed out earlier, the principles, criteria and basic objectives laid down in the Comprehensive Waste Management Plan are systematically breached. This situation is worsened by the absence of effective waste treatment and recovery, as waste recovery requires prior implementation of an adequate sorting system for fermentable organic matter and recyclable materials, as well as any other sorting systems ensuring the separation of recoverable materials in waste. Landfill has therefore become the dominant practice, giving way to the almost total saturation of many dumping sites, to demands for new ones or the extension of existing ones, and to promote a favourable context for justifying incineration plants. Secondly, this culture of disposal—and I would personally describe it as a culture that has lost its bearings—is strongly determined to consolidate a waste management and treatment system based on the “trash business”. The companies operating in refuse collection, landfill management and incineration have a yearly turnover of more than €4,500 million, according to the Asociación de Empresas de Limpieza Pública (ASELIP). In spite of revenue losses of 3.5 % as a result of the crisis, their 2012 invoicing for the domestic market (including street cleaning) amounted to €5,150 million. The garbage business in Spain involves approximately 140 companies, four large corporate groups virtually monopolizing contracts since 1991: FCC, Urbaser (ACS), Sufi-Sacyr (Valoriza) and Cespa (Ferrovial). One aspect to bear in mind in this context is that of waste management fraud, as regards not only frequent and repeated double-weighing practices—with municipal politicians, businesspeople and technicians involved—but also oligopolistic trends in pricing, payment of commissions, kickbacks, bribery and influence peddling, fairly common in return for contract extensions or new concessions in licence allocation processes for treatment plants and landfill sites, as illustrated by the so-called Brugal case, a true exponent of the reach of corruption and its spreading from the building sector to that of waste. Thirdly, concealment, opacity and the lack of participation must be noted as elements that rule over actions by the administration in this area. This has given way to multiple eco-social conflicts, mainly from NIMBYs (Not In My Back Yard), between citizens and local governments (Freudenburg & Pastor 1992), between citizens and local and regional authorities and between local and regional administrations, mostly prompted by attempts to set up new rubbish tips, by breaches of agreements between administrations, and by failing to submit mandatory reports and suitability and impact surveys for the facilities. Thus, far from addressing the ecological and social dimension of the complete cycle of waste generation, its possible minimization or the harshness of its impact, everything seems to indicate that productivist consensus dictates the criteria behind the waste policy. Though it could be argued that the intervention of the administration in this area was originally based on a strategy aimed at exempting itself from the ownership or authorship of the solid waste problem and blatantly (in public) transferring it on to industry, it was superseded by the strategy of keeping ownership secret (in private) in exchange for sharing responsibility in handling the problem with the industry (Solé 1998). This has led to a structure of interest intermediation between the public and private sectors that is not based on preventing waste, but rather on allowing waste on the basis of growing consumerism generated by that same industry, and where measures aimed at reduction are not intended to avoid environmental damage or raise environmental awareness but to collect and recycle on the basis of sheer profit. In short, the “trash business” spreads the culture of disposal, expressing itself in each individual phase: collection, hauling, “treatment” and landfill (Villalba 2009). Thus, concerning waste collection, the interest private operators have resides in collecting waste as quickly and economically as possible, both in terms of investment and labour, which translates into strategies that hinder waste sorting at source. In addition, the companies’ greater profitability is directly related to their size and this leads to central izing services for large geographic areas, with important repercussions on the transport item (more than 70% of the MSW budget goes to collection and transport). As for treatment, it is expensive especially when there is no sorting at source and this task needs to be carried out at the plant, mostly by hand, so it is kept at a minimum just to comply with requirements, if they are complied with at all.

#### 4] Capitalism is lagging –

Cockshott 98 [Paul, 1998, Department of Computer Science, Strathclyde University, Glasgow, Scotland, “Application of Artificial Intelligence Techniques to Economic Planning”, *University of Strathclyde* //GBS Majeed & Jacobs]

Relevance of computer science Computation is always a physical process. It is always performed by real physical mechanisms. These may be humans, humans aided by pen and paper, humans aided by calculators or electronic computers. At some point in the future these may be replaced by other physical mechanisms, perhaps based on optics. Whatever the mechanism, it has an economic cost. Human statisticians must be paid, computers must be built. There exists a body of laws which describe the costs of computation (Kronso 1987). The investigation of these laws is the task of computer science. In conjunction with the disciplines of electronic engineering and software engineering, it develops practical techniques for the solution of large-scale computations. The computational feasibility of a problem depends upon the rate at which the number of elementary arithmetic operations required to solve it grows with the size of the problem. If we label the size of the problem N then the complexity of a problem is characterized by some function complexity = F(N) which defines the least upper bound of the number of elementary arithmetic steps required. Tractable problems should have polynomial complexity functions. For really large N it is desirable to have a function of linear or log.linear complexity. These costs are conventionally expressed in terms of time. They may alternatively be mapped into costs in terms of space. By physical replication of components it is often possible to reduce the time taken to perform a computation, but the product of time by space occupied tends to be invariant for a given algorithmic technique and a given problem. This has obvious economic implications. The time and space abstractions of complexity theory translate into real economic costs. A computation is not worth doing if the answer arrives too late to do anything about it. If the cost of the computer required to solve a problem is greater than the savings to be made from solving it, it is better not to try. A large number of problems may be viewed from the standpoint of computation. We can for instance consider the operation of a market economy as a computational process. Loosely speaking we would describe the ’problem’ as being defined by the available physical resources and the demand schedules of the consumers. The objective of the calculation would be to ’arrive at a set of prices and a distribution of resources that optimally met the demand schedules. We are justified in thinking of this as a computational process because of a very powerful theorem of computer science that any finite physical process may be viewed as a computation and simulated on a computer (Deutsch 1985) with an appropriate program. A market economy is a rather slow computer since the basic steps of information transformation (price changes) only come about by the intermediary of changes in the physical volume of outputs. The elementary steps in the computation may take months or years, during which the availability of resources and demand schedules change. As a result the computation does not terminate. A planning bureau in a centrally controlled economy is more obviously a computational process. In this case the computation is not tied to alterations in the volume of physical output but proceeds either through the exchange of draft plan proposals between economists (Kornai 1975) or through the execution of programs on the planning bureau’s computers. In currently existing planning bureaus a considerable part of the process is still human mediated, which slows down the computational cycle. It may be the case that the speed to compute a plan in this way will actually be slower than the relaxation time of a market. Computer technology has delivered very big increases in productivity over the last forty years. The speed difference between hand calculation and doing the same thing on the fastest modern computer is about 10 to the power of 11. No other technology has achieved increases remotely like this. This raises the possibility that an entirely automatic computer program could perform the computations necessary for the control and balancing of production far faster than either a market or a planning bureau. To demonstrate that this is feasible we have to show that the problem of plan allocation can be cast in a form that is amenable to computer solution and that the complexity function of this computation has a time/space product that is economically acceptable. Limits to the formalism of linear programming Kantorovich demonstrated that the plan problem as formalized by him was logically soluble using linear programming techniques. Although it is logically possible to compute the correct allocation of resources to industries by these techniques, their practical application is hindered by several factors. Among these are the lack of data or poor quality of data available to the planning authorities in socialist economies and the technical backwardness of their computing machines. More significant is the question of computational complexity. Nove emphasises the scale of the problem,saying that there are 12 million distinct products in the Soviet Economy. He quotes a Soviet Economist as saying that it would take the whole population of the world millions of years just to solve the equations required for the plan of the Ukraine. The cost ofsolving linear programming problems grows non-linearly with the number of industries considered. Just to store the technical coefficients as an input/output matrix for the USSR economy would take around 1000000000000000 bytes of computer memory. At current prices of around $1000 per million bytes, this means the computer would cost upwards of 100 billion dollars. This alone would rule out applying a linear program to the whole economy even before we consider the running time of the program. To be acceptable the computation period should not exceed a few months, otherwise decisions arrive too late. Ideally we would like answers the same day. The cost of the computers and communications networks needed for the process should be less than the existing computing budget of an advanced economy, so that the computational tail does not wag the economic dog. We next argue that the problem of creating a balanced plan is order NlogN and computationally tractable provided that it is cast in terms of a different optimization model. Representing the problem The approach is to construct an internal computer model of the complete production structure of the economy and of the desired pattern of output. A form of search algorithm is then undertaken to discover a pattern of resource allocation that is close to optimal. It only gets close to optimal since the type of search procedure used is an iterative optimization which is terminated once an acceptable level of performance is achieved. The production structure of an economy is conventionally represented as an Input/Output matrix from a computational viewpoint. The memory storage requirement of a matrix grows as N 2 and the time order of matrix operations is greater than linear. Advantage is taken of the fact that real input/output matrices will, if expressed in natural rather than value units, be sparse. This allows the problem to be remodeled. Assume that there exists an enumerated type PRODUCT in our computational model of the economy such that the range of values of the type corresponds to the range of real products in the economy. An implementation of the type might be the bar-code number associated with each product. The other types used in the model are STOCKS, FLOWS, TECHNOLOGIES, and INDUSTRIES. A STOCK is defined to be an ordered pair of type (integer, PRODUCT) defining a number of units of a product. A FLOW is also of type (integer, PRODUCT) but is defined to be of dimension d dt (STOCK) By convention we define the consumption of a product to be a negative flow and the production of a product to be a positive flow (having negative and positive valued integer parts, respectively). A TECHNOLOGY is defined to be a function of type (\*STOCK → \*FLOW). That is to say it maps a set of stocks to a set of flows. (In what follows the notation \*X will mean the type of a set of X.) The interpretation of this is that the technology will allow a production process to take place such that: a given set of stocks will cause a net consumption of some products and a net production of others. Specifically, we assume that to generate a given net output, stocks of inputs must be combined in fixed proportions. So that: STOCKj = Icj Where I is the intensity with which a technology operates, cj is a constant, and STOCKj is the minimum stock of input j needed to attain this intensity. It is assumed that the flows induced by the technology will be of the form: FLOWj = fjI where the f are constants. An INDUSTRY is characterized by the combination of a set of stocks with a technology, hence (\*STOCK, TECHNOLOGY).1 The industry’s dynamic behaviour is characterized by the application of the technology function to its stocks. The above representation of the problem has the great advantage over linear programming approaches that it involves no matrices. In practice the matrix of technical coefficients of the economy would be very sparse. By using a set representation, the same information can be encoded much more efficiently. Using a suitable compact set representation the store required will grow proportionally to the product of the number of types of goods times the number of direct inputs that go into each distinct good. Because the mean number of direct inputs to a product is likely to be hundreds not millions, the memory costs for a representation of an economy are reduced by several orders of magnitude. A computer of the appropriate size would be expected to cost a few million dollars rather than hundreds of billions of dollars. The plan problem The plan problem can be defined as follows: given a set of stocks that exist at the current time period, and given a desired pattern of consumption of consumer goods, and a pre-given set of technologies, find the industrial structure that best meets this. This involves deciding how to allocate the aggregate stock of means of production between all of the industries. This can be solved by using techniques borrowed Irom artificial intelligence. Welfare economics is dependent upon the assumption that consumers are capable of chosing an optimal consumption pattern subject to certain constraints. This is a particular representation within the domain of economics of the ability of neural systems-human brains-to perform constraint satisfaction computations. Humans carry out constraint satisfaction computations all the time with our most basic physical movements. When we walk across the room and pick something up, our brain has solved an enormously complex constrained cost minimization function that has as its parameters all sorts of information about the degrees of freedom of our joints, the lengths of our bones, the impossibility of walking through tables, the fact that energy consumption is minimized by walking on our feet rather than our knees etc. We are unaware of them because trial and error during infancy specialized our brains for this sort of calculation. Economic planning is a problem of constraint satisfaction. Neural systems are consumately effective at constraint satisfaction, so it is beneficial to apply what has been learned through the study of neural networks to this area. Neural nets can be thought of as collections of entities with local interactions. The same can be thought of industries. An industry interacts with its immediate suppliers and customers. A neurone interacts with the other neurones that supply it with input signals and in turn drives output signals to other neurones. The intensity with which an industry is operated can be modeled by the frequency with which a neurone fires. A real neural analogue computer might have a neurone to represent each industry and would be set up with appropriate weights on its synapses to represent the strength of its coupling to other industries. The system is then presented with externalstimuli representing the desired pattern of output and the available inputs and is ’trained’ to select a pattern of industry activation that meets these constraints. In practice we would simulate the neural analogue computer on one or more digital computers. We end up with a digital computer simulating a neural computer simulating the total production function of a whole economy. But the principle of training with positive and negative reinforcement remains. In order to achieve this we introduce function which we term a Harmony function. This is loosely based upon the notion of Harmony used in the literature on neural nets (Smolensky 1986). The notion behind it is that Harmony is a real-valued function that measures how closely the net output of the economy corresponds with the goal. The function TotalHarmony(output,goal) where out put,goal : ∗FLOW may be evaluated by summing the contributions to TotalHarmony from each product. We define the function PartialHarmony(p) where p : PRODUCT to take on the value 0 when the output of a product exactly corresponds to the goal; it becomes steeply negative as output falls below the goal and becomes slightly positive when output exceeds the goal. This corresponds to the notion that shortfalls are more important than surpluses. A possible form of the partial harmony function would be: PartialHarmony(p) = H (scale(out put(p),goal(p))) (1) Where the scale function is of the form: scale(o,g) = o−g g (2) and the function H takes the form: H(x) = 1 2 if x > 0 −x 2 if x ≤ 0 (3) Since this function has a downwardssloping first derivative it mimicsthe economists’ notion of diminishing marginal utility. The partial harmony function depends upon relatively local information: the computed supply and demand for the product of an individual industry. This makes it suitable for use in a neural-motivated model. Given the partial harmony function we can construct a total harmony function: TotalHarmony = Σp PartialHarmony(p) (4) We redefine the problem as that of finding an algorithm that will adjust the distribution of stocks between industries so as to maximize harmony. The algorithm We start off with a random distribution of stocks between all industries, subject only to the constraint that stocks of a product are only allocated to those industries that use it as an input. 1. Find the rate-limiting factors For each industry determine the product for which the input stock acts as a rate limiting factor. Assume that the production function for the industry in question requires that the inputs must be combined in fixed proportions. This step will be of order k0NM where N is the number of industries and Mis the mean number of inputs per industry. 2. Remove non-critical resources If we have determined the critical resource for a production process and if we have a linear production function we can determine the stock of each other product that is required to optimally match the stock of the current critical resource. This is again subject to the assumption that the inputs must be combined in fixed proportions. We call this the balancing stock. Given the balancing stock of each non-critical input we can deduct any excess stocks and assign them to a global reserve. This step will again be of time order k1NM This step does not reduce net production as the resources moved to the central reserve are defined to be non-essential. In consequence, total harmony is not reduced by this step. 3. Compute partial harmonies Evaluate the partial harmony of each product. This involves calculating the net production of each product, comparing it with the goal and applying the harmony function. If this is done by iterating through each industry and evaluating the product flow contributed by that industry the time order of this will be k2NM +hN where h is the cost of applying the partial harmony function to a single product. 4. Compute mean harmony Given the partial harmonies, the mean and total harmony can then be computed. This will be of order N. 5. Sort in order of harmony We assume that there is only one industry acting as a net producer of each product. The harmony function originally applies to products; we now associate each industry with the partial harmony of its product. This enables us to order the industries in terms of ascending harmony. As a sorting operation this will be of complexity Nlog(N). 6. Reallocate reserves The stocks in the global pool are reallocated to industries starting with those industries that are least harmonious. (Note that these are purely notional transfers performed on the representation of the economy in the computer; no real transfers occur until the whole computation has terminated.) For each of these industries we calculate the additional stocks required to bring the industry up to mean harmony and allocate these to it from the global pool. The time order of this stage will be k3NMp where p is the proportion of industries that can have this done to them before stocks run out. As each industry has resources allocated to it, it is moved into the appropriate position in the list of industries and the mean harmony is re-evaluated. The cost of this operation will be of order pN log(N). 7. Reduce harmony peaks Up to this point all steps have tended to conserve or increase harmony. This is because they all tend to maintain or increase total production. We now have to alter the composition of production towards the most harmonious overall structure. This involves reassigning resources from those industries with the highest harmony to those with the lowest. Since the derivative of our harmony function dH decreases throughout its range, the system is characterized by diminishing marginal harmony. In consequence, total harmony can in some circumstances be increased by moving resources from the production of products with above-average harmony to those with below-average harmony. Our next step is to transfer resources from the most harmonious to the least harmonious branches of production. The set of products that are of above-average harmony is identified, the outputs of the industries producing them are scaled down until they are producing at average harmony, and the resourcesreleased are allocated to the global reserve. The complexity of this operation is k4NMq where q is the proportion of products of above-average harmony. 8. Iterate steps 6 and 7 till increase in harmony is small The crucial point here is how often the process has to be iterated. The limit to the complexity of the whole operation will be: R(pN (k3M +log(N))+k4NMq) where R is the number of iterations required. If we assume that the number of products in an economy is of the order of a million then M may well be greater than log(N). If we assume that M is of the order of 100 then the number of steps for the balancing of a million-product economy would be of the order of Rk5108 For an optimized program we might estimate the number of steps to be between 10 billion and 100 billion. Given that the fastest current computers operate at several billion operations per second (Frenkel 1986), this seems to be well within the bounds of feasible computation. Experimental verification The algorithm was programmed in the C programming language and a series of experimental runs made with simulated economies. The inputs to the program were: (1) a set of N technologies, (2) a set of target outputs for each product, (3) a set of stocks of means of production. The inputs were prepared by another program that ensured that the technologies were feasible, i.e. that the Sraffaian (Sraffa 1960) basic sector was capable of producing a surplus product, and that sufficient stocks of means of production were provided to meet the goals. The particular details of the technologies, targets, and stocks were, subject to these constraints, produced by a random-number generator. It was observed that the algorithm as given above did redistribute the stocks between industries in order to equalize harmony levels between industries. However it was found that industries converged upon a mean level of harmony that still left unused stocks of resources. There seem to be two alternative interpretations of this tendency to leave excess stocks. One possibility is that the system gets trapped in a local maximum of harmony that is below the global optimum such that no small variation in resource allocation would allow the system to escape from this local maximum. Alternatively, the fault may lie with the algorithm having an excessive tendency to converge towards the current mean harmony level. The problem of local maxima is also encountered in neural net simulations and it is avoided by using the technique of simulated annealing (Kirkpatrick et al 1983). In that case, thermal noise is added to ensure that the system moves towards a global maximum of harmony. The algorithm was thus modified to incorporate simulated annealing. In steps 6 and 7 a target output is computed for each industry such that production at this level would result in the industry being at mean ’harmony’: targeti = H(meanharmony) (5) The target is computed using the inverse harmony function H’ for the industry concerned. In order to overcome the strong convergence on the mean and the possibility of local maxima induced by this formula, an amplification a and a random noise variable n were added so that the output level was biased upwards: targeti = (1+n+a)H(meanharmony) (6) This also should allow for the system to escape local maxima. With each successive iteration the bias a and the noise variable n were reduced, allowing the system to go through two phases. In the first phase the target is dominated by the amplification bias, and all industries increase their outputs until resource constraints inhibit this. During the cooling phase the amplification bias tends towards zero and resources are gradually redistributed between industries. Monte Carlo type tests were performed on three versions of the algorithm: version 1 did not use amplification or thermal noise, version 2 used amplification alone, version 3 used both amplification and noise. A total of 49 runs of each the three algorithms were made. In all 49 runs the number of industries, the output goals, the technology, and the available stocks of resources were held constant. Each run used a different initial allocation of these resources between industries. For each of these initial allocation patterns the three versions of the algorithm attempted to find a maximally harmonious final resource allocation. The mean and standard deviations of the harmonies were then recorded for each algorithm on each run (Cottrell 1989). The results are summarized in Table 1. These seem to show that there is a statistically significant difference between version 1 and versions 2 and 3. The 95% confidence intervals for mean harmony are non-overlapping. On the other hand, there is not a significant difference between versions 2 and 3. Although the average mean harmony is a little higher when thermal noise is added to amplification, the 95% intervals for the populations are substantially overlapping. This implies that we should fail to reject the null hypothesis of equality between the two population means. The conclusion is that the addition of thermal noise is not worthwhile Algorithm Ver.sion 1 Version 2 Version 3 Average mean harmony -0..9473 1.3131 1.3180 Standard error 0..0012 0.0408 0.0406 Top of 95% confidence interval -0..9498 1.2314 1.2367 Bottom of 95% confidence interval 0..9448 1.3948 1.3994 Verifying that solution is correct Does the algorithm return the same solution as would have been arrived at by analytic means? In order to determine this, it was set the problem of computing the maximal harmony resource allocation for a system for which there was a known analytic solution. The approach was to define a set of goals and a set of technologiesto achieve these goals, and then to analytically determine the set of resources that were just sufficient to meet these goals with the given technologies. Let F be the input output flow matrix, then the net production flow matrix P is defined by P = (I −F) Now let the matrix of capital stocks required to sustain one unit of production for each industry be denoted by C and the goal vector by g. We can obtain the vector of stocks s just sufficient to meet the goals from the equation: s = C·(P −1 · g) If this quantity of stocks is harmoniously allocated between industries then the mean harmony of the system should be zero. This follows from the definition of harmony, which states that it is zero when outputs exactly equal goals. When the planbalancing algorithm was presented with a collection of industries whose total stocks had been calculated in this way, it terminated with a mean harmony of -0.0089. Given that the analytic solution assumed a real-valued stock vector which was rounded down to integer form for the plan-balancing algorithm, this was taken as evidence that the solution produced was correct to within rounding errors. Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedExperimentally determined time order Test runs were done with various numbers of industries. At the lower limit the number of industries was 30, at the upper limit 3750. In Fig. 1 two plots are shown of the computation time against number of industries for systems with M = 13 and M = 25, respectively. It will be observed that the run times are approximately a linear function of the number of industries. In general it was found that systems with large M converged after slightly fewer iterations than systems with small M and that for a given value of M the number of iterations was relatively independent of N. Figure 2 shows the evolution of mean harmony with successive iterations. The two phase development: rapid expansion followed by equilibration can be clearly seen. Conclusion The experimental results confirm the initial complexity analysis of the algorithm. The computer used for the computation had a floating-point arithmetic performance of less than 1 million operations per second. It was able to handle a system of 3705 industries in just over 320 seconds. It seems reasonable to project a similar compute time for balancing a plan of an entire economy on a modern super-computer. Nove gives an estimate of 12 million distinct products in the economy of one of the super-powers. This is an increase in the scale of the problem of about 3 orders of magnitude as compared to the experiment. The latest supercomputers have a throughput of several billion operations per second. This is again a 3-orders of magnitude improvement. Because 12 the algorithm depends upon local information, it should be suitable for multiprocessors. This implies that plan balancing in natural units is approaching the limits of what can be practically computed. Since computer technology advances quickly, what is at present marginally possible will soon be routinely possible. Such computations would only be as valid as the data available. To work they would presuppose the existence of an automatic data collection network, which relayed up-to-date information on partial production functions to the computer that performed the optimizations. We have argued elsewhere (Cockshott and Cottrell 1989) that this is well within the capabilities of current microcomputer and telecoms technology. We conclude that automated resource allocation by computer constitutes a third economic alternative to market allocation or bureaucratic allocation.

### Part 5 is Preempts

#### Impact Framing – Revolutionary Suicide is the risk we must take to abolish Racial Capitalism – there is no damnation worse than the current system.

Pinkard 13 [2013, Lynice Pinkard, “Revolutionary Suicide: Risking Everything to Transform Society and Live Fully”, Tikkun 2013 Volume 28, Number 4: 31-41, http://tikkun.dukejournals.org/content/28/4/31.full]

I’d like to present an alternative to conventional identity politics, one that requires that we understand the way that capitalism itself has grown out of a very particular kind of identity politics — white supremacy — aimed at securing “special benefits” for one group of people. It is not sufficient to speak only of identities of race, class, and gender. I believe we must also speak of identities in relation to domination. To what extent does any one of us identify with the forces of domination and participate in relations that reinforce that domination and the exploitation that goes with it? In what ways and to what extent are we wedded to our own upward mobility, financial security, good reputation, and ability to “win friends and influence people” in positions of power? Or conversely, do we identify (not wish to identify or pretend to identify but actually identify by putting our lives on the line) with efforts to reverse patterns of domination, empower people on the margins (even when we are not on the margins ourselves), and seek healthy, sustainable relations? When we consider our identities in relation to domination, we realize the manifold ways in which we have structured our lives and desires in support of the very economic and social system that is dominating us. To shake free of this cycle, we need to embrace a radical break from business as usual. We need to commit revolutionary suicide. By this I mean not the killing of our bodies but the destruction of our attachments to security, status, wealth, and power. These attachments prevent us from becoming spiritually and politically alive. They prevent us from changing the violent structure of the society in which we live. Revolutionary suicide means living out our commitments, even when that means risking death. When Huey Percy Newton, the cofounder of the Black Panther Party, called us to “revolutionary suicide,” it appears that he was making the same appeal as Jesus of Nazareth, who admonished, “Those who seek to save their lives will lose them, and those who lose their lives for the sake of [the planet] will save them.” Essentially, both movement founders are saying the same thing. Salvation is not an individual matter. It entails saving, delivering, rescuing an entire civilization. This cannot be just another day at the bargain counter. The salvation of an entire planet requires a total risk of everything — of you, of me, of unyielding people everywhere, for all time. This is what revolutionary suicide is. The cost of revolutionary change is people’s willingness to pay with their own lives. This is what Rachel Corrie knew when she, determined to prevent a Palestinian home in Rafah from being demolished, refused to move and was killed by an Israeli army bulldozer in the Gaza Strip. This is what Daniel Ellsberg knew when he made public the Pentagon Papers. It’s what Oscar Schindler knew when he rescued over 1,100 Jews from Nazi concentration camps, what subversive Hutus knew when they risked their lives to rescue Tutsis in the Rwandan genocide. This call may sound extreme at first, but an unflinching look at the structure of our society reveals why nothing less is enough. Before returning to the question of revolutionary suicide and what it might mean in each of our lives, let’s look at what we’re up against.

#### Process Counterplan Framing – debates over institutional minutia siphon energy away from social transformation – distinctions in central tenants and epistemology should come first

**Bhattacharyya 13**, Race and Ethnicity Prof at Aston University (Gargi, How can we live with ourselves? Universities and the attempt to reconcile learning and doing, Ethnic and Racial Studies, Vol. 36, No. 9, 1411-1428)

In Britain also there has been a move away from radical imagination in the politics of race, towards either highly institutionalized activity designed to measure and correct differential outcomes, or to ethnic particularity that challenges racism faced by a particular group but rarely links this activity to other struggles or a vision of an alternative society. However necessary these forms of organization may be because institutional outcomes continue to harden inequality between groups and mobilization needs to take place where people are, building on the affiliations that make sense to them the loss of a larger vision and set of aspirations diminishes what anti-racist politics can be. Kelly (2002, p. xii) goes on to specify the loss that arises from too exclusive a focus on matters of institutional detail or immediate politicking: Without new visions we don’t know what to build, only what to knock down. We not only end up confused, rudderless, and cynical, but we forget that making a revolution is not a series of clever maneuvers and tactics but a process that can and must transform us. This new revolutionary subject is unlikely to emerge from the mundane techniques of management that have come to typify ‘useful’ research in the field of racism. In response to the formulation of recent research funding in the UK, research in the field of race and racism that connects with ‘users’ has tended towards the technical. Much of this is shaped by the demand that research demonstrate its own ‘impact’, that is, shows its usefulness to an audience beyond academia, often before any findings are made and in order for time and money to be allocated.6 For the field of race and ethnic studies, this demand brings a model of knowledge as technique often management technique. Whether racism is seen to arise from communicational barriers between groups or from flawed institutional practices, the solution is presented as alternative practices do this and others will adapt their behaviour in these ways. If this were the extent of the imaginative failure, things would not be too bad. After all, universities rarely include the most exciting of ideas until the excitement can be rewritten as tradition. Sometimes banishment from the academy can help to get a different and more energetic audience for ideas that aspire to change our world. However, the politics of race seems to be institutionalized in an even more tightly confined logic in the spaces outside the academy. There may be a widespread recognition that racism demands an institutional response, but this is ripped away from any larger political narrative altogether. As a result, the attempts by scholars to address a public also tend to be limited by the narrow demands of such technical or legalistic approaches to what anti-racism can and should be. There is a dilemma here. For scholars who wish to connect with so called practitioners and who, perhaps, consider this world of equalities practice as their ‘public’ research is likely to become focused around these questions of technical organization. Of course, many of us still seek to document and explore the complexity of racism and its impact in the world but the focus for this endeavour becomes segmented by institutional focus and, often, a rush to make ‘recommendations’. Access to research funding in Britain, increasingly the only route to creating space for scholarly work, demands that research delivers this ‘impact’ of immediate and usable advice. At the same time, the ‘public’ of practitioners a group here that is overwhelmingly concentrated in organizations tasked with delivering services to diverse populations, whether through statutory services or the third sector appear to understand the role of the intellectual only as this kind of technical adviser.7 Useful research becomes only this research that can enable alternative and potentially more effective operation of bureaucratic practices of one kind or another. This framing of anti-racist research transforms the kind of politics that can be imagined for this intellectual endeavour. This is anti-racism as a matter of organizational adaptation, not any wider social transformation. Perhaps some believe that transformation occurs through the collective impact of these many small organizational changes that has certainly been the unspoken implication of anti- racist work since the Lawrence Enquiry but, whatever the benefits of improved institutional practices, if these in fact have been achieved, this approach abandons any sense of political movement. We may be producing work that connects with a public, but the aspirations of both scholars and public seem less than they were.