### 1 – Framing

#### The meta-ethic is phenomenalism – induction first

Sayre-McCord 1 Geoffrey Sayre-McCord, Philosophy, University of North Carolina, Chapel Hill, "Mill's “Proof” Of The Principle of Utility: A More Than Half-Hearted Defense", Social Philosophy and Policy, 2001, accessed: 1 April 2020, https://www.cambridge.org/core/journals/social-philosophy-and-policy/article/mills-proof-of-the-principle-of-utility-a-more-than-halfhearted-defense/FDBE07CBE08D4E17523930BF8C7BBC32, R.S.

When it comes to visibility, no less than desirability, Mill explicitly denies that a "proof" in the "ordinary acceptation of the term" can be offered.25 As he notes, "To be incapable of proof by reasoning is com mon to all first principles; to the first premises of our knowledge, as well as to those of our conduct."26 Nonetheless, support -- that is, evidence, though not proof -- for the first premises of our knowledge is provided by "our senses, and our internal consciousness." Mill's suggestion is that, when it comes to the first principles of conduct, desire play the same epistemic role that the senses play, when it comes to the first principles of knowledge. To understand this role, it is important to distinguish the fact that someone is sensing something from what is sensed, which is a distinction mirrored in the contrast bet ween the fact that someone is desiring something and what is desired. In the case of our senses, the evidence we have for our judgments concerning sensible qualities traces back to what is sensed, to the content of our sense-experience. Likewise, Mill is suggesting, in the case of value, the evidence we have for our judgments concerning value traces back to what is desired, to the content of our desires. Ultimately, the grounds we have for holding the principles we do must, he thinks, be traced back to our experience, to our senses and desires. Yet the evidence we have is not that we are sensing or desiring something but what it is that is sensed or desired. When we are having sensations of red, when what we are looking at appears red to us, we have evidence (albeit overrideable and defeasible evidence) that the thing is red. Moreover, if things never looked red to us, we could never get evidence that things were red, and would indeed never have developed the concept of redness. Similarly, when we are desiring things, when what we are considering appears good to us, we have evidence (albeit overrideable and defeasible evidence) that the thing is good. Moreover, if we never desired things, we could never get evidence that things were good, and would indeed never have developed the concept of value. Recall that desire, for Mill, like taste, touch, sight, and smell, is a "passive sensibility." All of these, he holds, provide us with both the content that makes thought possible and the evidence we have for the conclusions that thought leads us to embrace. "Desiring a thing" and "thinking of it as desirable (unless for the sake of its consequences)" are treated by Mill as one an d the same, just as seeing a thing as red and thinking of it as red are one and the same. Accordingly, a person who desires x is a person who ipso facto sees x as desirable. Desiring something, for Mill, is a matter of seeing it under the guise of the good. This means that it is important, in the context of Mill's argument, that one not think of desires as mere preferences or as just any sort of motive. They constitute, according to Mill, a distinctive subclass of our motivational states, and are distinguished (at least in part) by t heir evaluative content. Thus, Mill is neither assuming nor arguing that something is good because we desire it; rather, he is depending on our desiring it as establishing that we see it as good. At the same time, while desiring something is a matter of seeing it as good, one could, on Mill's view, believe that something is good without desiring it, just as one can believe something is red without seeing it as red. While desire is supposed to be the fundamental source of our concept of, and evidence for, desirability, once the concept is in place there are contexts in which we will have reason to think it applies even when the corresponding sensible experience is lacking. Indeed, in Chapter IV, Mill is concerned not with generating a desire, but with justifying the belief that happiness is desirable, and the only thing desirable, as an end, and so concerned with defending the standard for determining what should be desired. Mill's aim is to take what people already, and he thinks inevitably, see as desirable and argue that those views commit them to the value of the general happiness (whet her or not their desires follow the deliverances of t heir reason). Those who, like Mill, desire the general happiness already hold the view that the general happiness is desirable. They accept the claim that Mill is trying to defend. As Mill knows, however, there are many who do not have this desire -- many who desire only their own happiness, and some who even desire that others suffer. These are the people he sets out to persuade, along with others who are more generous and benevolent, but who nonetheless do not see happiness as desirable, and the only thin g desirable, as an end. Mill's argument is directed at convincing t hem all -- whether their desires follow or not -- that they have grounds for, and are in fact already com mitted to, regarding the happiness of others as valuable as an end. Mill recognizes that whatever argument he might hope to offer will need to appeal to evaluative claims people already accept (since he takes to heart Hume's caution concerning inferring an 'ought' from an 'is'). The claim Mill thinks he can appeal to -- that one's own happiness is a good (i.e. desirable) -- is something licensed as available by people desiring their own happiness. Yet he is not supposing here that the fact that they desire their own happiness, or anything else, is proof that it is desirable, just as he would not suppose that the fact that someone sees something as red is proof that it is. Rather, he is supposing that if people desire their own happiness, or see something as red, one can rely on t hem having available, as a premise for further argument, the claim that their own happiness is desirable or that the thing is red (at least absent contrary evidence). As he puts it in the third paragraph, "If the end which the utilitarian doctrine proposes to itself were not, in theory and in practice, acknowledged to be an end nothing could ever convince any person that it was so." Thus, in appealing to the analogy bet ween judgments of sensible qualities and judgments of value, Mill is not trading on an ambiguity, nor does his argument here involve identifying being desirable with being desired or assuming that "desirable" means "desired." He is instead relying consistently on an empiricist account of concepts and their application -- on a view according to which we have the concepts, evidence, and knowledge we do only thanks to our having experiences of a certain sort. In the absence of the relevant experiences, he holds (with other empiricists), we would not only lack the required evidence for our judgments, we would lack the capacity to make the judgments in the first place. In the presence of the relevant experiences, though, we have both the concepts and the required evidence -- "not only all the proof which the case admits of, but all which it is possible to require."

#### The standard is maximizing expected wellbeing. Pleasure and pain are intrinsic value and disvalue – everything else regresses – robust neuroscience.

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**Pleasure** is not only one of the three primary reward functions but it also **defines reward.** As homeostasis explains the functions of only a limited number of rewards, the principal reason why particular stimuli, objects, events, situations, and activities are rewarding may be due to pleasure. This applies first of all to sex and to the primary homeostatic rewards of food and liquid and extends to money, taste, beauty, social encounters and nonmaterial, internally set, and intrinsic rewards. Pleasure, as the primary effect of rewards, drives the prime reward functions of learning, approach behavior, and decision making and provides the basis **for hedonic** theories of reward function. We are attracted by most rewards and exert intense efforts to obtain them, just because they are enjoyable [10]. Pleasure is a passive reaction that derives from the experience or prediction of reward and may lead to a long-lasting state of happiness. The word happiness is difficult to define. In fact, just obtaining physical pleasure may not be enough. One key to happiness involves a network of good friends. However, it is not obvious how the higher forms of satisfaction and pleasure are related to an ice cream cone, or to your team winning a sporting event. Recent multidisciplinary research, using both humans and detailed invasive brain analysis of animals has discovered some critical ways that the brain processes pleasure [14]. Pleasure as a hallmark of reward is sufficient for defining a reward, but it may not be necessary. A reward may generate positive learning and approach behavior simply because it contains substances that are essential for body function. When we are hungry, we may eat bad and unpleasant meals. A monkey who receives hundreds of small drops of water every morning in the laboratory is unlikely to feel a rush of pleasure every time it gets the 0.1 ml. Nevertheless, with these precautions in mind, we may define any stimulus, object, event, activity, or situation that has the potential to produce pleasure as a reward. In the context of reward deficiency or for disorders of addiction, homeostasis pursues pharmacological treatments: drugs to treat drug addiction, obesity, and other compulsive behaviors. The theory of allostasis suggests broader approaches - such as re-expanding the range of possible pleasures and providing opportunities to expend effort in their pursuit. [15]. It is noteworthy, the first animal studies eliciting approach behavior by electrical brain stimulation interpreted their findings as a discovery of the brain’s pleasure centers [16] which were later partly associated with midbrain dopamine neurons [17–19] despite the notorious difficulties of identifying emotions in animals. Evolutionary theories of pleasure: The love connection BO:D Charles Darwin and other biological scientists that have examined the biological evolution and its basic principles found various mechanisms that steer behavior and biological development. Besides their theory on natural selection, it was particularly the sexual selection process that gained significance in the latter context over the last century, especially when it comes to the question of what makes us “what we are,” i.e., human. However, the capacity to sexually select and evolve is not at all a human accomplishment alone or a sign of our uniqueness; yet, we humans, as it seems, are ingenious in fooling ourselves and others–when we are in love or desperately search for it. It is well established that modern biological theory conjectures that **organisms are** the **result of evolutionary competition.** In fact, Richard Dawkins stresses gene survival and propagation as the basic mechanism of life [20]. Only genes that lead to the fittest phenotype will make it. It is noteworthy that the phenotype is selected based on behavior that maximizes gene propagation. To do so, the phenotype must survive and generate offspring, and be better at it than its competitors. Thus, the ultimate, distal function of rewards is to increase evolutionary fitness by ensuring the survival of the organism and reproduction. It is agreed that learning, approach, economic decisions, and positive emotions are the proximal functions through which phenotypes obtain other necessary nutrients for survival, mating, and care for offspring. Behavioral reward functions have evolved to help individuals to survive and propagate their genes. Apparently, people need to live well and long enough to reproduce. Most would agree that homo-sapiens do so by ingesting the substances that make their bodies function properly. For this reason, foods and drinks are rewards. Additional rewards, including those used for economic exchanges, ensure sufficient palatable food and drink supply. Mating and gene propagation is supported by powerful sexual attraction. Additional properties, like body form, augment the chance to mate and nourish and defend offspring and are therefore also rewards. Care for offspring until they can reproduce themselves helps gene propagation and is rewarding; otherwise, many believe mating is useless. According to David E Comings, as any small edge will ultimately result in evolutionary advantage [21], additional reward mechanisms like novelty seeking and exploration widen the spectrum of available rewards and thus enhance the chance for survival, reproduction, and ultimate gene propagation. These functions may help us to obtain the benefits of distant rewards that are determined by our own interests and not immediately available in the environment. Thus the distal reward function in gene propagation and evolutionary fitness defines the proximal reward functions that we see in everyday behavior. That is why foods, drinks, mates, and offspring are rewarding. There have been theories linking pleasure as a required component of health benefits salutogenesis, (salugenesis). In essence, under these terms, pleasure is described as a state or feeling of happiness and satisfaction resulting from an experience that one enjoys. Regarding pleasure, it is a double-edged sword, on the one hand, it promotes positive feelings (like mindfulness) and even better cognition, possibly through the release of dopamine [22]. But on the other hand, pleasure simultaneously encourages addiction and other negative behaviors, i.e., motivational toxicity. It is a complex neurobiological phenomenon, relying on reward circuitry or limbic activity. It is important to realize that through the “Brain Reward Cascade” (BRC) endorphin and endogenous morphinergic mechanisms may play a role [23]. While natural rewards are essential for survival and appetitive motivation leading to beneficial biological behaviors like eating, sex, and reproduction, crucial social interactions seem to further facilitate the positive effects exerted by pleasurable experiences. Indeed, experimentation with addictive drugs is capable of directly acting on reward pathways and causing deterioration of these systems promoting hypodopaminergia [24]. Most would agree that pleasurable activities can stimulate personal growth and may help to induce healthy behavioral changes, including stress management [25]. The work of Esch and Stefano [26] concerning the link between compassion and love implicate the brain reward system, and pleasure induction suggests that social contact in general, i.e., love, attachment, and compassion, can be highly effective in stress reduction, survival, and overall health. Understanding the role of neurotransmission and pleasurable states both positive and negative have been adequately studied over many decades [26–37], but comparative anatomical and neurobiological function between animals and homo sapiens appear to be required and seem to be in an infancy stage. Finding happiness is different between apes and humans As stated earlier in this expert opinion one key to happiness involves a network of good friends [38]. However, it is not entirely clear exactly how the higher forms of satisfaction and pleasure are related to a sugar rush, winning a sports event or even sky diving, all of which augment dopamine release at the reward brain site. Recent multidisciplinary research, using both humans and detailed invasive brain analysis of animals has discovered some critical ways that the brain processes pleasure. Remarkably, there are pathways for ordinary liking and pleasure, which are limited in scope as described above in this commentary. However, there are **many brain regions**, often termed hot and cold spots, that significantly **modulate** (increase or decrease) our **pleasure or** even produce the opposite of pleasure— that is disgust and fear [39]. One specific region of the nucleus accumbens is organized like a computer keyboard, with particular stimulus triggers in rows— producing an increase and decrease of pleasure and disgust. Moreover, the cortex has unique roles in the cognitive evaluation of our feelings of pleasure [40]. Importantly, the interplay of these multiple triggers and the higher brain centers in the prefrontal cortex are very intricate and are just being uncovered. Desire and reward centers It is surprising that many different sources of pleasure activate the same circuits between the mesocorticolimbic regions (Figure 1). Reward and desire are two aspects pleasure induction and have a very widespread, large circuit. Some part of this circuit distinguishes between desire and dread. The so-called pleasure circuitry called “REWARD” involves a well-known dopamine pathway in the mesolimbic system that can influence both pleasure and motivation. In simplest terms, the well-established mesolimbic system is a dopamine circuit for reward. It starts in the ventral tegmental area (VTA) of the midbrain and travels to the nucleus accumbens (Figure 2). It is the cornerstone target to all addictions. The VTA is encompassed with neurons using glutamate, GABA, and dopamine. The nucleus accumbens (NAc) is located within the ventral striatum and is divided into two sub-regions—the motor and limbic regions associated with its core and shell, respectively. The NAc has spiny neurons that receive dopamine from the VTA and glutamate (a dopamine driver) from the hippocampus, amygdala and medial prefrontal cortex. Subsequently, the NAc projects GABA signals to an area termed the ventral pallidum (VP). The region is a relay station in the limbic loop of the basal ganglia, critical for motivation, behavior, emotions and the “Feel Good” response. This defined system of the brain is involved in all addictions –substance, and non –substance related. In 1995, our laboratory coined the term “Reward Deficiency Syndrome” (RDS) to describe genetic and epigenetic induced hypodopaminergia in the “Brain Reward Cascade” that contribute to addiction and compulsive behaviors [3,6,41]. Furthermore, ordinary “liking” of something, or pure pleasure, is represented by small regions mainly in the limbic system (old reptilian part of the brain). These may be part of larger neural circuits. In Latin, hedus is the term for “sweet”; and in Greek, hodone is the term for “pleasure.” Thus, the word Hedonic is now referring to various subcomponents of pleasure: some associated with purely sensory and others with more complex emotions involving morals, aesthetics, and social interactions. The capacity to have pleasure is part of being healthy and may even extend life, especially if linked to optimism as a dopaminergic response [42]. Psychiatric illness often includes symptoms of an abnormal inability to experience pleasure, referred to as anhedonia. A negative feeling state is called dysphoria, which can consist of many emotions such as pain, depression, anxiety, fear, and disgust. Previously many scientists used animal research to uncover the complex mechanisms of pleasure, liking, motivation and even emotions like panic and fear, as discussed above [43]. However, as a significant amount of related research about the specific brain regions of pleasure/reward circuitry has been derived from invasive studies of animals, these cannot be directly compared with subjective states experienced by humans. In an attempt to resolve the controversy regarding the causal contributions of mesolimbic dopamine systems to reward, we have previously evaluated the three-main competing explanatory categories: “liking,” “learning,” and “wanting” [3]. That is, dopamine may mediate (a) liking: the hedonic impact of reward, (b) learning: learned predictions about rewarding effects, or (c) wanting: the pursuit of rewards by attributing incentive salience to reward-related stimuli [44]. We have evaluated these hypotheses, especially as they relate to the RDS, and we find that the incentive salience or “wanting” hypothesis of dopaminergic functioning is supported by a majority of the scientific evidence. Various neuroimaging studies have shown that anticipated behaviors such as sex and gaming, delicious foods and drugs of abuse all affect brain regions associated with reward networks, and may not be unidirectional. Drugs of abuse enhance dopamine signaling which sensitizes mesolimbic brain mechanisms that apparently evolved explicitly to attribute incentive salience to various rewards [45]. Addictive substances are voluntarily self-administered, and they enhance (directly or indirectly) dopaminergic synaptic function in the NAc. This activation of the brain reward networks (producing the ecstatic “high” that users seek). Although these circuits were initially thought to encode a set point of hedonic tone, it is now being considered to be far more complicated in function, also encoding attention, reward expectancy, disconfirmation of reward expectancy, and incentive motivation [46]. The argument about addiction as a disease may be confused with a predisposition to substance and nonsubstance rewards relative to the extreme effect of drugs of abuse on brain neurochemistry. The former sets up an individual to be at high risk through both genetic polymorphisms in reward genes as well as harmful epigenetic insult. Some Psychologists, even with all the data, still infer that addiction is not a disease [47]. Elevated stress levels, together with polymorphisms (genetic variations) of various dopaminergic genes and the genes related to other neurotransmitters (and their genetic variants), and may have an additive effect on vulnerability to various addictions [48]. In this regard, Vanyukov, et al. [48] suggested based on review that whereas the gateway hypothesis does not specify mechanistic connections between “stages,” and does not extend to the risks for addictions the concept of common liability to addictions may be more parsimonious. The latter theory is grounded in genetic theory and supported by data identifying common sources of variation in the risk for specific addictions (e.g., RDS). This commonality has identifiable neurobiological substrate and plausible evolutionary explanations. Over many years the controversy of dopamine involvement in especially “pleasure” has led to confusion concerning separating motivation from actual pleasure (wanting versus liking) [49]. We take the position that animal studies cannot provide real clinical information as described by self-reports in humans. As mentioned earlier and in the abstract, on November 23rd, 2017, evidence for our concerns was discovered [50] In essence, although nonhuman primate brains are similar to our own, the disparity between other primates and those of human cognitive abilities tells us that surface similarity is not the whole story. Sousa et al. [50] small case found various differentially expressed genes, to associate with pleasure related systems. Furthermore, the dopaminergic interneurons located in the human neocortex were absent from the neocortex of nonhuman African apes. Such differences in neuronal transcriptional programs may underlie a variety of neurodevelopmental disorders. In simpler terms, the system controls the production of dopamine, a chemical messenger that plays a significant role in pleasure and rewards. The senior author, Dr. Nenad Sestan from Yale, stated: “Humans have evolved a dopamine system that is different than the one in chimpanzees.” This may explain why the behavior of humans is so unique from that of non-human primates, even though our brains are so surprisingly similar, Sestan said: “It might also shed light on why people are vulnerable to mental disorders such as autism (possibly even addiction).” Remarkably, this research finding emerged from an extensive, multicenter collaboration to compare the brains across several species. These researchers examined 247 specimens of neural tissue from six humans, five chimpanzees, and five macaque monkeys. Moreover, these investigators analyzed which genes were turned on or off in 16 regions of the brain. While the differences among species were subtle, **there was** a **remarkable contrast in** theneocortices, specifically in an area of the brain that is much more developed in humans than in chimpanzees. In fact, these researchers found that a gene called tyrosine hydroxylase (TH) for the enzyme, responsible for the production of dopamine, was expressed in the neocortex of humans, but not chimpanzees. As discussed earlier, dopamine is best known for its essential role within the brain’s reward system; the very system that responds to everything from sex, to gambling, to food, and to addictive drugs. However, dopamine also assists in regulating emotional responses, memory, and movement. Notably, abnormal dopamine levels have been linked to disorders including Parkinson’s, schizophrenia and spectrum disorders such as autism and addiction or RDS. Nora Volkow, the director of NIDA, pointed out that one alluring possibility is that the neurotransmitter dopamine plays a substantial role in humans’ ability to pursue various rewards that are perhaps months or even years away in the future. This same idea has been suggested by Dr. Robert Sapolsky, a professor of biology and neurology at Stanford University. Dr. Sapolsky cited evidence that dopamine levels rise dramatically in humans when we anticipate potential rewards that are uncertain and even far off in our futures, such as retirement or even the possible alterlife. This may explain what often motivates people to work for things that have no apparent short-term benefit [51]. In similar work, Volkow and Bale [52] proposed a model in which dopamine can favor NOW processes through phasic signaling in reward circuits or LATER processes through tonic signaling in control circuits. Specifically, they suggest that through its modulation of the orbitofrontal cortex, which processes salience attribution, dopamine also enables shilting from NOW to LATER, while its modulation of the insula, which processes interoceptive information, influences the probability of selecting NOW versus LATER actions based on an individual’s physiological state. This hypothesis further supports the concept that disruptions along these circuits contribute to diverse pathologies, including obesity and addiction or RDS.

#### Prefer:

#### 1] Bindingness-- I could put my hand on a hot stove and I’d automatically pull it back before a signal is sent to my brain-- Anything else fails to be morally binding because one could always ask “why not?”

#### 2] Actor spec—governments must use util because they don’t have intentions and are constantly dealing with tradeoffs—outweighs since different agents have different obligations

#### 3] Only consequentialism explains degrees of wrongness—if I break a promise to meet up for lunch, that is not as bad as breaking a promise to take a dying person to the hospital. Only the consequences of breaking the promise explain why the second one is much worse than the first which is the most intuitive. That outweighs:

#### A] Parsimony – metaphysics relies on long chains of questionable claims that make conclusions less likely.

#### B] Hijacks – intuitions are inevitable since even every framework must take some unjustified assumption as a starting point.

#### 4] Use epistemic modesty for clash – disincentives debaters going all in for framework meaning we get the ideal balance between normative and applied philosophy

#### 5] Reject calc indicts and util triggers permissibility arguments:

#### A] Theory—they’re functionally NIBs that everyone knows are silly but skew the aff and move the debate away from the topic and actual philosophical debate, killing valuable education

#### B] Morally abhorrent – it would say we have no obligation to prevent genocide and that slavery was permissible which is morally abhorrent and makes debate unsafe

#### 6] Lexical pre-requisite: threats to bodily security preclude the ability for moral actors to effectively act upon other moral theories since they are in a constant state of crisis that inhibits the ideal moral conditions which other theories presuppose

#### 7] TJFs:

#### A] Predictable literature -- util ensures that we have a wide breadth of literature about the topic to read because contention level arguments are centered around current events and substantive. Outweighs because of accessibility – it might be difficult for debaters to access paywalled philosophical journals and to make sense of them, but general topic literature like news and op eds are easily accessible.

#### B] Topic ed -- util ensures topical research and debate because we have to analyze the consequences of the plan versus the neg advocacy. Outweighs on reversibility – we can learn about prag anywhere outside the round but topical debate happens these two months.

#### 8] Extinction first under any framework

#### A] Future lives -- trillions of future lives are lost. They are just as valuable as current ones – anything else says some lives are worth less than others which is genocidal rhetoric

#### B] Reversibility -- extinction forecloses future improvement; prefer -- if we’re unsure about which interpretation of the world is true, we should preserve it to figure things out.

### 2 – Biz con

#### Business confidence is strong, driving economic recovery.

Halloran ’9-14 [Michael; 2021; M.B.A. from Carnegie Mellon University, former aerospace research engineer, Equity Strategist; Janney, “Despite Potential Headwinds, Key Labor Market Indicators Bode Well for the Economy,” https://www.janney.com/latest-articles-commentary/all-insights/insights/2021/09/14/despite-potential-headwinds-key-labor-market-indicators-bode-well-for-the-economy]

However, we remain encouraged by the recovery that has been unfolding since the economy began reopening. We continue to see improvement in important cyclical sectors of the economy while consumers are historically healthy and still have pent-up demand. Business confidence has rebounded with strong corporate profits that should support further capital spending and hiring (there are now more job openings than there are unemployed people by a record amount).

We expect to see further improvement in the international backdrop, supported by unprecedented fiscal and monetary stimulus and accelerating rates of vaccination. Although the impact of the Delta wave is still being felt, recent evidence confirms the effectiveness of vaccines in limiting deaths and hospitalizations. With the pace of vaccination now picking up in the areas most impacted by this wave—Asia and Australia—the case for fading headwinds leading to improving economic growth later this year remains positive.

The signals from financial markets themselves remain positive. Despite consolidating last week, stocks remain near record highs while the 10-year Treasury remains well above the lows of earlier this summer when concerns about Delta first emerged.

These factors support our view of a durable economic recovery from the pandemic that should continue supporting stock prices. A healthy labor market is a critical element for a sustainable recovery that supports profit growth and last week’s news from the labor market remains encouraging.

#### The AFF devastates the economy.

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Economic growth is one of the most important pillars of a state. Most developing states put in place measures that enhance or speed-up the economic growth of their countries. It is believed that if the economy of a country is stable, the lives of the people improve with available resources being shared among the country’s inhabitants or citizens. However, it becomes difficult when the growth of the economy is hampered by the exercise of one or more of the constitutionally entrenched rights such as the right to strike. 1 Strikes in South Africa are becoming more common, and this affects businesses, employees and their families, and eventually, the economy. It becomes more dangerous for the economy and society at large if strikes are accompanied by violence causing damage to property and injury to people. The duration of strikes poses a problem for the economy of a developing country like South Africa. South Africa is rich in mineral resources, the world’s largest producer of platinum and chrome, the secondlargest producer of zirconium and the third-largest exporter of coal. It also has the largest economy in Africa, both in terms of industrial capacity and gross domestic product (GDP).2 However, these economic advantages have been affected by protracted and violent strikes.3 For example, in the platinum industries, labour stoppages since 2012 have cost the sector approximately R18 billion lost in revenue and 900 000 oz in lost output. The five-monthlong strike in early 2014 at Impala Platinum Mine amounted to a loss of about R400 million a day in revenue.4 The question that this article attempts to address is how violent strikes and their duration affect the growth of the economy in a developing country like South Africa. It also addresses the question of whether there is a need to change the policies regulating industrial action in South Africa to make them more favourable to economic growth.

2 BACKGROUND

When South Africa obtained democracy in 1994, there was a dream of a better country with a new vision for industrial relations.5 However, the number of violent strikes that have bedevilled this country in recent years seems to have shattered-down the aspirations of a better South Africa. South Africa recorded 114 strikes in 2013 and 88 strikes in 2014, which cost the country about R6.1 billion according to the Department of Labour.6 The impact of these strikes has been hugely felt by the mining sector, particularly the platinum industry. The biggest strike took place in the platinum sector where about 70 000 mineworkers’ downed tools for better wages. Three major platinum producers (Impala, Anglo American and Lonmin Platinum Mines) were affected. The strike started on 23 January 2014 and ended on 25 June 2014. Business Day reported that “the five-month-long strike in the platinum sector pushed the economy to the brink of recession”. 7 This strike was closely followed by a four-week strike in the metal and engineering sector. All these strikes (and those not mentioned here) were characterised with violence accompanied by damage to property, intimidation, assault and sometimes the killing of people. Statistics from the metal and engineering sector showed that about 246 cases of intimidation were reported, 50 violent incidents occurred, and 85 cases of vandalism were recorded.8 Large-scale unemployment, soaring poverty levels and the dramatic income inequality that characterise the South African labour market provide a broad explanation for strike violence.9 While participating in a strike, workers’ stress levels leave them feeling frustrated at their seeming powerlessness, which in turn provokes further violent behaviour.10

These strikes are not only violent but take long to resolve. Generally, a lengthy strike has a negative effect on employment, reduces business confidence and increases the risk of economic stagflation. In addition, such strikes have a major setback on the growth of the economy and investment opportunities. It is common knowledge that consumer spending is directly linked to economic growth. At the same time, if the economy is not showing signs of growth, employment opportunities are shed, and poverty becomes the end result. The economy of South Africa is in need of rapid growth to enable it to deal with the high levels of unemployment and resultant poverty.

One of the measures that may boost the country’s economic growth is by attracting potential investors to invest in the country. However, this might be difficult as investors would want to invest in a country where there is a likelihood of getting returns for their investments. The wish of getting returns for investment may not materialise if the labour environment is not fertile for such investments as a result of, for example, unstable labour relations. Therefore, investors may be reluctant to invest where there is an unstable or fragile labour relations environment.

#### Just short-term disruptions stop economic recovery.

Shannon Pettypiece 10-24, senior White House reporter for NBCNews.com. October 24, 2021. “Biden on the sidelines of 'Striketober,' with economy in the balance” <https://www.nbcnews.com/politics/white-house/biden-sidelines-striketober-economy-balance-n1282094> brett

But President Biden faces a different dynamic from candidate Biden, because strikes risk adding to labor shortages and supply chain disruptions that are already driving up prices as the global economy reels from pandemic strains. While the strikes could benefit workers by driving up wages in the long term, the near-term impact of persistent or growing work stoppages could include worst-case scenarios like food shortages or lack of access to hospitals.

"This will come at an economic cost to employers and therefore the economy, and I think that may be why Biden has gone a little silent," said Ariel Avgar, an associate professor of labor relations, law and history at Cornell University. "It is tricky for him. On the one hand, he is on the record supporting unions and their ability to use collective action. On the other hand, the point of strikes is to extract an economic price for employers unwilling to negotiate in a way the union feels is appropriate."

There have been 184 strikes by health care to factory workers this year after the coronavirus pandemic aggravated concerns over low wages and poor working conditions, and the tight labor market has given workers more leverage. Among the strikers are more than 10,000 John Deere workers who went on strike this month. More than 24,000 health care workers at Kaiser Permanente are preparing to strike, joining thousands of nurses and other health care workers elsewhere who have been striking for months.

#### Decline cascades---nuclear war

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Various scholars and institutions regard global social instability as the greatest threat facing this decade. The catalyst has been postulated to be a Second Great Depression which, in turn, will have profound implications for global security and national integrity. This paper, written from a broad systems perspective, illustrates how emerging risks are getting more complex and intertwined; blurring boundaries between the economic, environmental, geopolitical, societal and technological taxonomy used by the World Economic Forum for its annual global risk forecasts. Tight couplings in our global systems have also enabled risks accrued in one area to snowball into a full-blown crisis elsewhere. The COVID-19 pandemic and its socioeconomic fallouts exemplify this systemic chain-reaction. Onceinexorable forces of globalization are rupturing as the current global system can no longer be sustained due to poor governance and runaway wealth fractionation. The coronavirus pandemic is also enabling Big Tech to expropriate the levers of governments and mass communications worldwide. This paper concludes by highlighting how this development poses a dilemma for security professionals.

Key Words: Global Systems, Emergence, VUCA, COVID-9, Social Instability, Big Tech, Great Reset

INTRODUCTION

The new decade is witnessing rising volatility across global systems. Pick any random “system” today and chart out its trajectory: Are our education systems becoming more robust and affordable? What about food security? Are our healthcare systems improving? Are our pension systems sound? Wherever one looks, there are dark clouds gathering on a global horizon marked by volatility, uncertainty, complexity and ambiguity (VUCA).

But what exactly is a global system? Our planet itself is an autonomous and selfsustaining mega-system, marked by periodic cycles and elemental vagaries. Human activities within however are not system isolates as our banking, utility, farming, healthcare and retail sectors etc. are increasingly entwined. Risks accrued in one system may cascade into an unforeseen crisis within and/or without (Choo, Smith & McCusker, 2007). Scholars call this phenomenon “emergence”; one where the behaviour of intersecting systems is determined by complex and largely invisible interactions at the substratum (Goldstein, 1999; Holland, 1998).

The ongoing COVID-19 pandemic is a case in point. While experts remain divided over the source and morphology of the virus, the contagion has ramified into a global health crisis and supply chain nightmare. It is also tilting the geopolitical balance. China is the largest exporter of intermediate products, and had generated nearly 20% of global imports in 2015 alone (Cousin, 2020). The pharmaceutical sector is particularly vulnerable. Nearly “85% of medicines in the U.S. strategic national stockpile” sources components from China (Owens, 2020).

An initial run on respiratory masks has now been eclipsed by rowdy queues at supermarkets and the bankruptcy of small businesses. The entire global population – save for major pockets such as Sweden, Belarus, Taiwan and Japan – have been subjected to cyclical lockdowns and quarantines. Never before in history have humans faced such a systemic, borderless calamity.

COVID-19 represents a classic emergent crisis that necessitates real-time response and adaptivity in a real-time world, particularly since the global Just-in-Time (JIT) production and delivery system serves as both an enabler and vector for transboundary risks. From a systems thinking perspective, emerging risk management should therefore address a whole spectrum of activity across the economic, environmental, geopolitical, societal and technological (EEGST) taxonomy. Every emerging threat can be slotted into this taxonomy – a reason why it is used by the World Economic Forum (WEF) for its annual global risk exercises (Maavak, 2019a). As traditional forces of globalization unravel, security professionals should take cognizance of emerging threats through a systems thinking approach.

METHODOLOGY

An EEGST sectional breakdown was adopted to illustrate a sampling of extreme risks facing the world for the 2020-2030 decade. The transcendental quality of emerging risks, as outlined on Figure 1, below, was primarily informed by the following pillars of systems thinking (Rickards, 2020):

• Diminishing diversity (or increasing homogeneity) of actors in the global system (Boli & Thomas, 1997; Meyer, 2000; Young et al, 2006);

• Interconnections in the global system (Homer-Dixon et al, 2015; Lee & Preston, 2012);

• Interactions of actors, events and components in the global system (Buldyrev et al, 2010; Bashan et al, 2013; Homer-Dixon et al, 2015); and

• Adaptive qualities in particular systems (Bodin & Norberg, 2005; Scheffer et al, 2012) Since scholastic material on this topic remains somewhat inchoate, this paper buttresses many of its contentions through secondary (i.e. news/institutional) sources.

ECONOMY

According to Professor Stanislaw Drozdz (2018) of the Polish Academy of Sciences, “a global financial crash of a previously unprecedented scale is highly probable” by the mid- 2020s. This will lead to a trickle-down meltdown, impacting all areas of human activity.

The economist John Mauldin (2018) similarly warns that the “2020s might be the worst decade in US history” and may lead to a Second Great Depression. Other forecasts are equally alarming. According to the International Institute of Finance, global debt may have surpassed $255 trillion by 2020 (IIF, 2019). Yet another study revealed that global debts and liabilities amounted to a staggering $2.5 quadrillion (Ausman, 2018). The reader should note that these figures were tabulated before the COVID-19 outbreak.

The IMF singles out widening income inequality as the trigger for the next Great Depression (Georgieva, 2020). The wealthiest 1% now own more than twice as much wealth as 6.9 billion people (Coffey et al, 2020) and this chasm is widening with each passing month. COVID-19 had, in fact, boosted global billionaire wealth to an unprecedented $10.2 trillion by July 2020 (UBS-PWC, 2020). Global GDP, worth $88 trillion in 2019, may have contracted by 5.2% in 2020 (World Bank, 2020).

As the Greek historian Plutarch warned in the 1st century AD: “An imbalance between rich and poor is the oldest and most fatal ailment of all republics” (Mauldin, 2014). The stability of a society, as Aristotle argued even earlier, depends on a robust middle element or middle class. At the rate the global middle class is facing catastrophic debt and unemployment levels, widespread social disaffection may morph into outright anarchy (Maavak, 2012; DCDC, 2007).

Economic stressors, in transcendent VUCA fashion, may also induce radical geopolitical realignments. Bullions now carry more weight than NATO’s security guarantees in Eastern Europe. After Poland repatriated 100 tons of gold from the Bank of England in 2019, Slovakia, Serbia and Hungary quickly followed suit.

According to former Slovak Premier Robert Fico, this erosion in regional trust was based on historical precedents – in particular the 1938 Munich Agreement which ceded Czechoslovakia’s Sudetenland to Nazi Germany. As Fico reiterated (Dudik & Tomek, 2019):

“You can hardly trust even the closest allies after the Munich Agreement… I guarantee that if something happens, we won’t see a single gram of this (offshore-held) gold. Let’s do it (repatriation) as quickly as possible.” (Parenthesis added by author).

President Aleksandar Vucic of Serbia (a non-NATO nation) justified his central bank’s gold-repatriation program by hinting at economic headwinds ahead: “We see in which direction the crisis in the world is moving” (Dudik & Tomek, 2019). Indeed, with two global Titanics – the United States and China – set on a collision course with a quadrillions-denominated iceberg in the middle, and a viral outbreak on its tip, the seismic ripples will be felt far, wide and for a considerable period.

A reality check is nonetheless needed here: Can additional bullions realistically circumvallate the economies of 80 million plus peoples in these Eastern European nations, worth a collective $1.8 trillion by purchasing power parity? Gold however is a potent psychological symbol as it represents national sovereignty and economic reassurance in a potentially hyperinflationary world. The portents are clear: The current global economic system will be weakened by rising nationalism and autarkic demands. Much uncertainty remains ahead. Mauldin (2018) proposes the introduction of Old Testament-style debt jubilees to facilitate gradual national recoveries. The World Economic Forum, on the other hand, has long proposed a “Great Reset” by 2030; a socialist utopia where “you’ll own nothing and you’ll be happy” (WEF, 2016).

In the final analysis, COVID-19 is not the root cause of the current global economic turmoil; it is merely an accelerant to a burning house of cards that was left smouldering since the 2008 Great Recession (Maavak, 2020a). We also see how the four main pillars of systems thinking (diversity, interconnectivity, interactivity and “adaptivity”) form the mise en scene in a VUCA decade.

ENVIRONMENTAL

What happens to the environment when our economies implode? Think of a debt-laden workforce at sensitive nuclear and chemical plants, along with a concomitant surge in industrial accidents? Economic stressors, workforce demoralization and rampant profiteering – rather than manmade climate change – arguably pose the biggest threats to the environment. In a WEF report, Buehler et al (2017) made the following pre-COVID-19 observation:

The ILO estimates that the annual cost to the global economy from accidents and work-related diseases alone is a staggering $3 trillion. Moreover, a recent report suggests the world’s 3.2 billion workers are increasingly unwell, with the vast majority facing significant economic insecurity: 77% work in part-time, temporary, “vulnerable” or unpaid jobs.

Shouldn’t this phenomenon be better categorized as a societal or economic risk rather than an environmental one? In line with the systems thinking approach, however, global risks can no longer be boxed into a taxonomical silo. Frazzled workforces may precipitate another Bhopal (1984), Chernobyl (1986), Deepwater Horizon (2010) or Flint water crisis (2014). These disasters were notably not the result of manmade climate change. Neither was the Fukushima nuclear disaster (2011) nor the Indian Ocean tsunami (2004). Indeed, the combustion of a long-overlooked cargo of 2,750 tonnes of ammonium nitrate had nearly levelled the city of Beirut, Lebanon, on Aug 4 2020. The explosion left 204 dead; 7,500 injured; US$15 billion in property damages; and an estimated 300,000 people homeless (Urbina, 2020). The environmental costs have yet to be adequately tabulated.

Environmental disasters are more attributable to Black Swan events, systems breakdowns and corporate greed rather than to mundane human activity.

Our JIT world aggravates the cascading potential of risks (Korowicz, 2012). Production and delivery delays, caused by the COVID-19 outbreak, will eventually require industrial overcompensation. This will further stress senior executives, workers, machines and a variety of computerized systems. The trickle-down effects will likely include substandard products, contaminated food and a general lowering in health and safety standards (Maavak, 2019a). Unpaid or demoralized sanitation workers may also resort to indiscriminate waste dumping. Many cities across the United States (and elsewhere in the world) are no longer recycling wastes due to prohibitive costs in the global corona-economy (Liacko, 2021).

Even in good times, strict protocols on waste disposals were routinely ignored. While Sweden championed the global climate change narrative, its clothing flagship H&M was busy covering up toxic effluences disgorged by vendors along the Citarum River in Java, Indonesia. As a result, countless children among 14 million Indonesians straddling the “world’s most polluted river” began to suffer from dermatitis, intestinal problems, developmental disorders, renal failure, chronic bronchitis and cancer (DW, 2020). It is also in cauldrons like the Citarum River where pathogens may mutate with emergent ramifications.

On an equally alarming note, depressed economic conditions have traditionally provided a waste disposal boon for organized crime elements. Throughout 1980s, the Calabriabased ‘Ndrangheta mafia – in collusion with governments in Europe and North America – began to dump radioactive wastes along the coast of Somalia. Reeling from pollution and revenue loss, Somali fisherman eventually resorted to mass piracy (Knaup, 2008).

The coast of Somalia is now a maritime hotspot, and exemplifies an entwined form of economic-environmental-geopolitical-societal emergence. In a VUCA world, indiscriminate waste dumping can unexpectedly morph into a Black Hawk Down incident. The laws of unintended consequences are governed by actors, interconnections, interactions and adaptations in a system under study – as outlined in the methodology section.

Environmentally-devastating industrial sabotages – whether by disgruntled workers, industrial competitors, ideological maniacs or terrorist groups – cannot be discounted in a VUCA world. Immiserated societies, in stark defiance of climate change diktats, may resort to dirty coal plants and wood stoves for survival. Interlinked ecosystems, particularly water resources, may be hijacked by nationalist sentiments. The environmental fallouts of critical infrastructure (CI) breakdowns loom like a Sword of Damocles over this decade.

GEOPOLITICAL

The primary catalyst behind WWII was the Great Depression. Since history often repeats itself, expect familiar bogeymen to reappear in societies roiling with impoverishment and ideological clefts. Anti-Semitism – a societal risk on its own – may reach alarming proportions in the West (Reuters, 2019), possibly forcing Israel to undertake reprisal operations inside allied nations. If that happens, how will affected nations react? Will security resources be reallocated to protect certain minorities (or the Top 1%) while larger segments of society are exposed to restive forces? Balloon effects like these present a classic VUCA problematic.

Contemporary geopolitical risks include a possible Iran-Israel war; US-China military confrontation over Taiwan or the South China Sea; North Korean proliferation of nuclear and missile technologies; an India-Pakistan nuclear war; an Iranian closure of the Straits of Hormuz; fundamentalist-driven implosion in the Islamic world; or a nuclear confrontation between NATO and Russia. Fears that the Jan 3 2020 assassination of Iranian Maj. Gen. Qasem Soleimani might lead to WWIII were grossly overblown. From a systems perspective, the killing of Soleimani did not fundamentally change the actor-interconnection-interaction adaptivity equation in the Middle East. Soleimani was simply a cog who got replaced.

### 3 – Food insecurity

#### The United States ought to:

#### Recognize a right of workers to strike, except for workers who are essential to a country’s food supply

#### Provide those workers with a right to impartial conciliation followed by arbitration procedures

#### Workers right to strike can be conditional in the context of food supply---exceptions are limited to avoid abuses, AND enable alternatives that channel worker demands

Brudney 21, James J., Joseph Crowley Chair in Labor and Employment Law, Fordham Law School. Yale Journal of International Law, 2021. “The Right to Strike as Customary International Law” <https://digitalcommons.law.yale.edu/cgi/viewcontent.cgi?article=1710&context=yjil> brett

The international right to strike is far from absolute. It may be restricted in exceptional circumstances, or even prohibited, pursuant to national regulation. For a start, Convention 87 provides that members of the armed forces and the police may be excluded from the scope of the Convention in general, including the right to strike.57 In addition, applications by the CFA and CEACR have concluded that three distinct forms of substantive restriction on the right to strike are compatible with Convention 87.

1. Substantive Limitations

One important restriction applies to certain categories of public servants. The CEACR and CFA have made clear that public employees generally enjoy the same right to strike as their counterparts in the private sector; at the same time, in order to ensure continuity of functions in the three branches of government, this right may be restricted for public servants exercising authority in the name of the State.58 Examples include officials performing tasks that involve the administration of necessary executive branch functions or that relate to the administration of justice.

Each country hasits own approach to classifying public servants exercising authority in the name of the State. When considering the international right under Convention 87, some public servant exceptions seem clearly applicable, such as officials auditing or collecting internal revenues, customs officers, or judges and their close judicial assistants. 59 Some public servant exceptions seem inapplicable, such as teachers, or public servants in State-owned commercial enterprises.60 Whether public servants are exercising authority in the name of the State can be a close question under particular national law, one on which the CEACR and CFA have offered encouragement and guidance,61 as has the Committee on Economic, Social and Cultural Rights (CESCR).62

A second equally important restriction on the right to strike involves essential services in the strict sense of the term. This is an area in which both the CEACR and CFA have developed a detailed set of applications and guidelines. 63 The two committees consider that essential services, for the purposes of restricting or prohibiting the right to strike, are only those “the interruption of which would endanger the life, personal safety or health of the whole or part of the population.”64

This definition of essential services “in the strict sense of the term” stems from the idea that “essential services” as a limitation on the right to strike would lose its meaning if statutes or judicial decisions defined those services in too broad a manner. 65 The interruption of services that cause or have the potential to cause economic hardships—even serious economic hardships—is not ordinarily sufficient to qualify the interrupted service as essential. Indeed, the very purpose of a strike is to interrupt services or production and thereby cause a degree of economic hardship. That is the leverage workers can exercise; it is what allows a strike to be effective in bringing the parties to the table and securing a negotiated settlement.

The two ILO supervisory committees also have made clear that the essential services concept is not static in nature. Thus, a non-essential service may become essential if the strike exceeds a certain duration or extent, or as a function of the special characteristics of a country. 66 One example is that of an island State where at some point ferry transportation services become essential to bring food and medical supplies to the population.67

When examining concrete cases, the supervisory bodies have considered a range of services, both public and private, too broad to summarize here. As illustrative, the two bodies have determined that essential services in the strict sense of the term include air traffic control services, 68 telephone services, 69 prison services, firefighting services, and water and electricity services. 70 The CEACR and CFA also have identified a range of services that presumptively are deemed not to be essential in the strict sense of the term.71

In addition, in circumstances where a total prohibition on the right to strike is not appropriate, the magnitude of impact on the basic needs of consumers or the general public, or the need for safe operation of facilities, may justify introduction of a negotiated minimum service.72 Such a service, however, must truly be a minimum service, that is one limited to meeting the basic needs of the population or the minimum requirements of the service, while maintaining the effectiveness of the pressure brought to bear through the strike by a majority of workers.73

The third substantive restriction on the right to strike under Convention 87 relates to situations of acute national or local crisis, although only for a limited period and only to the extent necessary to meet the requirements of the situation.74

With respect to all three forms of substantive restriction, the CFA and CEACR have indicated that certain alternative options should be guaranteed for workers who are deprived of the right to strike. These options include impartial conciliation followed by arbitration procedures in which any awards are binding on both parties and are to be implemented in full and rapid terms.75

#### Strikes are inevitable and cause food insecurity---empirics

Lopes et al 19, Mariana Souza Lopes--Universidade Federal de Minas Gerais, Research Group on Nutrition Interventions, Belo Horizonte, MG, Brazil. Melissa Luciana de Araújo--Universidade Federal de Minas Gerais, Research Group on Urban Agriculture, Belo Horizonte, MG, Brazil. Aline Cristine Souza Lopes--Nutrition Department, Universidade Federal de Minas Gerais, Research Group on Nutrition Interventions. PHN, (2019) <https://www.cambridge.org/core/journals/public-health-nutrition/article/national-general-truck-drivers-strike-and-food-security-in-a-brazilian-metropolis/90C14AC48923A17597DED720365E810B> brett

Food security exists when people have, at all times, a guaranteed and adequate food supply. Food security involves access to sufficient, safe and nutritious food that meets individual dietary requirements and food preferences for a healthy life without restricting access to other fundamental needs( 1 ) and sovereignty( 2 ). Therefore, the risk of food insecurity is influenced by the availability, price, access and quality of the food supply to the consumer, especially in a crisis situation( 3 ). Studies that have explored the global food crisis and market instability indicate that there is an independent association between crisis situations and food security( 4 , 5 ). For example, a recent Brazilian study showed that there was a marked increase in the prevalence of food insecurity during the Brazilian economic crisis( 4 ).

In Brazil, the Centrais de Abastecimento de Minas Gerais S.A. (CEASA-MINAS) distributes produce. The aims of the CEASA-MINAS are to: (i) improve the process of marketing and distribution of products; and (ii) connect producers and consumers in urban centres. The CEASA-MINAS is supported by mixed-capital (public and private) resources and operates under governmental supervision. Consequently, the CEASA-MINAS plays an important role in guaranteeing food security and the human right to food( 6 ).

The state of Minas Gerais is the third-largest economy in Brazil and has one of the best transport networks in the country. The CEASA-MINAS has six units in this state and its headquarters is in the city of Contagem, in the metropolitan region of Belo Horizonte. The headquarters is the principal unit and is named CEASA-Minas Grande BH( 7 ). In 2018, the CEASA-Minas Grande BH traded about 2000 tonnes of food, which corresponded to 80 % of the total market in the state( 8 ). Therefore, this business unit is the subject of the present study.

The supply of unprocessed or minimally processed foods\* in the CEASA-MINAS is self-supplied by the state of Minas Gerais. In spite of this, food is transported via long routes in the state due to its large territory (586 528 km2). The distribution network is more complex for fruit. The supply of fruit at the CEASA-Minas Grande BH has multiple origins and the fruits are carried by trucks over long distances. Some leafy vegetables are produced near the food supply centre( 10 ). In general, the food supply of the CEASA-Minas Grande BH covers a radius of 200 km, but there are items that originate from distances of up to 2000 km away( 11 ). The 1081 municipality suppliers of the CEASA-Minas Grande BH move, on average, 25 700 trucks per month via Brazilian roadways( 8 ).

Consequently, a national general truck drivers’ strike may have important consequences for the economy and food supply chain of a country that is dependent on road networks. Such an event occurred on 21–30 May 2018. During this 10 d strike, Brazilians experienced an extreme event characterized by roadblocks and the unavailability of fuel, medicine, food, and the inputs for food production processes. The disruption of the supply of animal feed had a devastating impact: millions of chickens and pigs were slaughtered because producers had no food for them( 12 ). The drivers were on strike in order to make diesel oil tax-free and to obtain better working conditions( 13 ).

Despite the drivers’ important claims, in a crisis situation, 200 km can be as long as 2000 km and the repercussions may result in negative impacts for food security. Given the importance of transport conditions for the food security of the Brazilian population, the present paper aimed to analyse the impact of the national general truck drivers’ strike on the availability, variety and price of unprocessed foods sold by a food supply centre in a Brazilian metropolis.

#### Food insecurity goes nuclear

Hartley et al 12 (Major General John Hartley AO (Retd), CEO and Institute, Director Future Directions International, Roundtable Chairman. Alyson Clarke, FDI Executive Officer Gary Kleyn, Manager, FDI Global Food and Water Crises Research Programme, “International Conflict Triggers and Potential Conflict Points Resulting from Food and Water Insecurity” 25 May 2012 http://futuredirections.org.au/wp-content/uploads/2012/05/Workshop\_Report\_-\_Intl\_Conflict\_Triggers\_-\_May\_25.pdf) brett

There is little dispute that conflict can lead to food and water crises. This paper will consider parts of the world, however, where food and water insecurity can be the cause of conflict and, at worst, result in war. While dealing predominately with food and water issues, the paper also recognises the nexus that exists between food and water and energy security. There is a growing appreciation that the conflicts in the next century will most likely be fought over a lack of resources. Yet, in a sense, this is not new. Researchers point to the French and Russian revolutions as conflicts induced by a lack of food. More recently, Germany’s World War Two efforts are said to have been inspired, at least in part, by its perceived need to gain access to more food. Yet the general sense among those that attended FDI’s recent workshops, was that the scale of the problem in the future could be significantly greater as a result of population pressures, changing weather, urbanisation, migration, loss of arable land and other farm inputs, and increased affluence in the developing world. In his book, Small Farmers Secure Food, Lindsay Falvey, a participant in FDI’s March 2012 workshop on the issue of food and conflict, clearly expresses the problem and why countries across the globe are starting to take note. He writes (p.36), “…if people are hungry, especially in cities, the state is not stable – riots, violence, breakdown of law and order and migration result.” “Hunger feeds anarchy.” This view is also shared by Julian Cribb, who in his book, The Coming Famine, writes that if “large regions of the world run short of food, land or water in the decades that lie ahead, then wholesale, bloody wars are liable to follow.” He continues: “An increasingly credible scenario for World War 3 is not so much a confrontation of super powers and their allies, as a festering, self-perpetuating chain of resource conflicts.” He also says: “The wars of the 21st Century are less likely to be global conflicts with sharply defined sides and huge armies, than a scrappy mass of failed states, rebellions, civil strife, insurgencies, terrorism and genocides, sparked by bloody competition over dwindling resources.” As another workshop participant put it, people do not go to war to kill; they go to war over resources, either to protect or to gain the resources for themselves. Another observed that hunger results in passivity not conflict. Conflict is over resources, not because people are going hungry. A study by the International Peace Research Institute indicates that where food security is an issue, it is more likely to result in some form of conflict. Darfur, Rwanda, Eritrea and the Balkans experienced such wars. Governments, especially in developed countries, are increasingly aware of this phenomenon. The UK Ministry of Defence, the CIA, the US Center for Strategic and International Studies and the Oslo Peace Research Institute, all identify famine as a potential trigger for conflicts and possibly even nuclear war.

## Case

### Framing

Performativity –

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Education NU

### Advantage

## **AT – Climate Strikes**

#### companies circumvent and fire employees.

BBC 20 [BBC News, 1-3-2020, "Amazon 'threatens to fire' climate change activists," <https://www.bbc.com/news/business-50953719> [accessed 10-17-21] lydia

A group of Amazon employees has said the company has threatened to fire some of them for speaking out on environmental issues. Amazon Employees for Climate Justice said the workers were told they were in violation of company policies. It comes after employees joined calls for the e-commerce giant to do more to tackle climate change. The company said its policy on employees making public comments is not new and covers all of its workers. In a Twitter post, the group said some employees had been contacted by Amazon's legal and human resources teams and questioned about public comments they had made. The statement went on to say: "Some workers then received follow-up emails threatening termination if they continue to speak about Amazon's business." Amazon told the BBC the rules were not new, adding: "We recently updated the policy and related approval process to make it easier for employees to participate in external activities such as speeches, media interviews, and use of the company's logo." It continued: "As with any company policy, employees may receive a notification from our HR team if we learn of an instance where a policy is not being followed." Amazon Employees for Climate Justice is a group of the company's workers "who believe it's our responsibility to ensure our business models don't contribute to the climate crisis". The group has called on Amazon to achieve zero emissions by 2030, limit its work with fossil fuel companies, and stop funding for politicians and lobbyists who deny the existence of climate change. Amazon, like many other big companies, has faced increasing pressure from both the public and its own workers to take bolder steps to address its impact on the environment. In May thousands of Amazon employees used the company's annual shareholders meeting to call on chief executive Jeff Bezos to formulate a broad climate change initiative for the business. That proposal was rejected by shareholders. But the following September, [Mr Bezos announced plans for the company to be completely powered by renewable energy by 2030 and have net zero carbon emissions by 2040](https://www.bbc.co.uk/news/technology-49757660). The day after that announcement, more than 1,000 workers left their desks to join the Global Climate Strike, as well as protesting against Amazon's environmental policies.

#### STRIKES ARE HIGH NOW AND MORE ARE COMING- PROVES NO UNIQUENESS OR REASON WHY THE AFF IS KEY

Romero 10-21 Dani Romero (REPORTER, yahoo finance) 10/21/21, ‘Strikes are contagious’: Wave of labor unrest signals crisis in tight job market, <https://news.yahoo.com/strikes-are-contagious-wave-of-labor-unrest-signals-crisis-in-tight-jobs-market-135052770.html>

As employers of all sizes grapple with an acute worker shortage amid what’s being called the pandemic era’s Great Resignation, it’s become increasingly clear that people with jobs aren’t all that happy, either. At an ever-lengthening list of workplaces around the country, workers this year have been getting loud about the state of wages, working hours and conditions. From healthcare to entertainment, nearly 100,000 U.S. workers are either striking or preparing to strike in a bid to improve working conditions. New data signals that worker unrest is growing: a Cornell Labor Action Tracker shows that more than 180 strikes have been recorded this year, and over 24,000 workers have walked off the job this month. This all plays out against a backdrop of an economy bouncing back from an economic shutdown during the pandemic. More than 10,000 John Deere workers went on strike Thursday, the first major walkout at the agricultural machinery giant in more than three decades. “We have noticed a bit of an uptick in late September into early October, for example, we've already documented 39 strikes on the month of October,” Johnnie Kallas, a Ph.D. student at Cornell University’s School of Industrial and Labor Relations, or ILR, who tracks labor actions across the country, said in an interview. “Those numbers are already the largest of any month in 2021,” he added. The Bureau of Labor Statistics, which records only large work stoppages, has documented 12 strikes involving 1,000 or more workers. That represents a big jump from when the pandemic started over 19 months ago. “What will happen is you'll see more workers going on strike,” Kate Bronfenbrenner, director of labor education research and senior lecturer at Cornell school of industrial and labor relations, told Yahoo Finance. “Each time there's a ripple effect with each one of those, if the John Deere strike isn’t settled, you're going to see another big group go out,” she said. “If companies don't move, you're going to see this spread from one group to another. Strikes are contagious,” Bronfenbrenner added.

#### NO STRIKE CLAUSES IN UNION CONTRACTS MEAN STRIKES WON’T HAPPEN EVEN IF GOVERNMENTS PERMIT THEM

Hamilton 5-4 HAMILTON NOLAN (labor reporter for In These Times. He has spent the past decade writing about labor and politics for Gawker, Splinter, The Guardian, and elsewhere) 5/4/21, Get Rid of No-Strike Clauses and Stop Begging, https://inthesetimes.com/article/no-strike-clause-labor-peace-union-contracts

Two of the candidates running for president of a 100,000-member public employee union in California, SEIU Local 1000, have a notable plank in their platforms: they want to get no-strike clauses out of their union contracts. They have an uphill battle, in large part because, on this particular issue, the labor movement will tend to act as a rock pulling them down, rather than helping them up. In post WWII America, union contracts work more or less like this: The company guarantees workers certain wages and benefits, and the workers agree to give up their right to strike for the term of the contract. This fundamental agreement — material gains in exchange for labor peace — defines modern labor relations. And where has this arrangement gotten the labor movement? Near death. For decades, union membership has declined, wages have stagnated, and capital has gained more and more power over working people. This devastating collapse in the power of organized labor has coincided with the post ​“Treaty of Detroit” period in which a very dangerous idea was cemented and enshrined as conventional wisdom. That is the idea that employers agree to union contracts in order to purchase labor peace—that the incentive for a company to bargain and sign a contract with its workers is to receive, in turn, a guarantee that those workers will be quiescent.

#### Warming isn’t existential—updated studies prove

Nordhaus 20 - (Ted Nordhaus is the founder and executive director of the Breakthrough Institute and a co-author of “An Ecomodernist Manifesto.”; 1-23-2020, WSJ, "Ignore the Fake Climate Debate," doa: 12-27-2020) url: <https://www.wsj.com/articles/ignore-the-fake-climate-debate-11579795816>

Beyond the headlines and social media, where Greta Thunberg, Donald Trump and the online armies of climate “alarmists” and “deniers” do battle, there is a real climate debate bubbling along in scientific journals, conferences and, occasionally, even in the halls of Congress. It gets a lot less attention than the boisterous and fake debate that dominates our public discourse, but it is much more relevant to how the world might actually address the problem. In the real climate debate, no one denies the relationship between human emissions of greenhouse gases and a warming climate. Instead, the disagreement comes down to different views of climate risk in the face of multiple, cascading uncertainties. On one side of the debate are optimists, who believe that, with improving technology and greater affluence, our societies will prove quite adaptable to a changing climate. On the other side are pessimists, who are more concerned about the risks associated with rapid, large-scale and poorly understood transformations of the climate system. But most pessimists do not believe that runaway climate change or a hothouse earth are plausible scenarios, much less that human extinction is imminent. And most optimists recognize a need for policies to address climate change, even if they don’t support the radical measures that Ms. Thunberg and others have demanded. In the fake climate debate, both sides agree that economic growth and reduced emissions vary inversely; it’s a zero-sum game. In the real debate, the relationship is much more complicated. Long-term economic growth is associated with both rising per capita energy consumption and slower population growth. For this reason, as the world continues to get richer, higher per capita energy consumption is likely to be offset by a lower population. A richer world will also likely be more technologically advanced, which means that energy consumption should be less carbon-intensive than it would be in a poorer, less technologically advanced future. In fact, a number of the high-emissions scenarios produced by the United Nations Intergovernmental Panel on Climate Change involve futures in which the world is relatively poor and populous and less technologically advanced. Affluent, developed societies are also much better equipped to respond to climate extremes and natural disasters. That’s why natural disasters kill and displace many more people in poor societies than in rich ones. It’s not just seawalls and flood channels that make us resilient; it’s air conditioning and refrigeration, modern transportation and communications networks, early warning systems, first responders and public health bureaucracies. New research published in the journal Global Environmental Change finds that global economic growth over the last decade has reduced climate mortality by a factor of five, with the greatest benefits documented in the poorest nations. In low-lying Bangladesh, 300,000 people died in Cyclone Bhola in 1970, when 80% of the population lived in extreme poverty. In 2019, with less than 20% of the population living in extreme poverty, Cyclone Fani killed just five people. “Poor nations are most vulnerable to a changing climate. The fastest way to reduce that vulnerability is through economic development.” So while it is true that poor nations are most vulnerable to a changing climate, it is also true that the fastest way to reduce that vulnerability is through economic development, which requires infrastructure and industrialization. Those activities, in turn, require cement, steel, process heat and chemical inputs, all of which are impossible to produce today without fossil fuels. For this and other reasons, the world is unlikely to cut emissions fast enough to stabilize global temperatures at less than 2 degrees above pre-industrial levels, the long-standing international target, much less 1.5 degrees, as many activists now demand. But recent forecasts also suggest that many of the worst-case climate scenarios produced in the last decade, which assumed unbounded economic growth and fossil-fuel development, are also very unlikely. There is still substantial uncertainty about how sensitive global temperatures will be to higher emissions over the long-term. But the best estimates now suggest that the world is on track for 3 degrees of warming by the end of this century, not 4 or 5 degrees as was once feared. That is due in part to slower economic growth in the wake of the global financial crisis, but also to decades of technology policy and energy-modernization efforts. “We have better and cleaner technologies available today because policy-makers in the U.S. and elsewhere set out to develop those technologies.” The energy intensity of the global economy continues to fall. Lower-carbon natural gas has displaced coal as the primary source of new fossil energy. The falling cost of wind and solar energy has begun to have an effect on the growth of fossil fuels. Even nuclear energy has made a modest comeback in Asia.

#### Democracy kills the environment – extinction.

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This is exactly what Mark Beeson suggests in his argument for the coming of environmental authoritarianism. He acknowledges the fact that individual liberty has led to ‘environmentally destructive behaviour’ (Beeson 2010: 276). Whilst democracy has allowed for a more open discussion on environmental issues as well as raising awareness, there has been too much trust put on ecological enlightenment through education. For Beeson, this ‘relies too much on an optimistic, **naïve view of human nature’** (Beeson 2010: 282), the idea that an attitude of respect, through the emergence of a shared cosmopolitan rhetoric will produce environmental improvement is wide of the mark. As Beeson rightly points out, the ‘sobering reality’ is that as the human population continues to grow, **consuming resources** on an **unprecedented scale**, ‘policy-makers will have less and less capacity to intervene to keep damage to the environment from producing serious social disruption’ (Beeson 2010: 283). **Liberal democracy**, through the necessities dictated by a capitalist economy has built its survival on the continued exploitation of **environmental resources** to a point where an attempt to gain control of this practice has become **almost impossible**. The article, whilst not wholly advocating the Asian political model (indeed Beeson highlights the fact that China is a ruthless exploiter of its own natural environment and sets a poor example for the rest of the continent), is appropriately pessimistic towards the success of liberal democracy. It therefore seems rational to put forward soft **authoritarianism** as a viable alternative: for it avoids **trust in the individual**, taking a negative view of human nature and advocates **the need for state control**, particularly surrounding **urgent policy issues like the environment**. Whilst it is difficult to accept, it may be the case that ‘good forms of authoritarianism, in which environmentally unsustainable forms of behaviour are simply forbidden, may become not only justifiable, but **essential for the survival of humanity’** (Beeson 2010: 289).