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# Universal Kindness

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A decentralized unconditional  
universal income guarantee,  
implemented using cryptocurrency  
and networks of social trust – an  
attempt at the total, direct and  
immediate abolition of poverty.

4

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**DRAFT**

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GPLv3

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# 13 Contents

14	<b>Acknowledgements</b>	<b>i</b>
15	<b>Contents</b>	<b>ii</b>
16	<b>1 Introduction, motivations, caveats</b>	<b>2</b>
17	<b>2 What: some terminology</b>	<b>8</b>
18	2.1 Terminology . . . . .	8
19	<b>3 Why and how</b>	<b>9</b>
20	3.1 Imperial capitalism and the class system . . . . .	9
21	3.2 Artificial scarcity, technologies of decentralization and income . . . . .	11
22	3.3 Decentralized unconditional universal income guarantee system . . . . .	23
23	3.3.1 Blockchain . . . . .	25
24	3.3.2 Decentralized/distributed social trust graph as Sybil defense . . . . .	26
25	3.3.3 Demurrage, inflation and deflation . . . . .	28
26	3.3.4 Existence in tandem with other currencies . . . . .	29
27	3.3.5 Exchange rates . . . . .	29
28	3.3.6 National credit . . . . .	30
29	3.3.7 Revolution . . . . .	30
30	3.4 Monetary policies with guaranteed income . . . . .	31
31	<b>4 Other uses</b>	<b>34</b>
32	4.1 Reparations and debt forgiveness . . . . .	34

33	4.2	Direct democracy . . . . .	35
34	4.3	Surveillance and privacy, and proletariat control over the admissability of	
35		evidence into court . . . . .	35
36	4.4	Credit . . . . .	36
37	4.5	Similar, good ideas that may not be implementable using the proposed system	36
38	4.6	Fair use of resources intended for people as opposed to bots . . . . .	36
39	<b>5</b>	<b>Dangers</b>	<b>37</b>
40	5.1	Borders . . . . .	37
41	5.2	Tyranny of the majority . . . . .	37
42	5.3	Transparency . . . . .	38
43	5.4	Unintended consequences . . . . .	38
44		<b>References</b>	<b>39</b>

## Chapter 1

# Introduction, motivations, caveats

If a lot of people love each other,  
the world would be a better place to live.

Johnny



Figure 1.1

49 Pierre-Joseph Proudhon, the first anarchist and yet deeply problematic person, rejected all  
50 political action as a form of class collaboration and argued instead that the working class  
51 can achieve its salvation through economic action alone.

52 This document presents some ideas that are in pursuit of a society that values fairness  
53 and caring, intrinsically involving care of non-human nature, perhaps via some methods of  
54 communalist anarchy, and that has at its core the idea that no one should have to work  
55 just to survive. Described is a tool of social coordination to direct progress towards such  
56 a society: a monetary policy controlled by dictatorship of a proletariat. Decentralized  
57 networks of social trust and decentralized networks of cryptocurrency could possibly be  
58 used to create this decentralized form of coordination, a prioritised function of which would  
59 be a *decentralized unconditional universal income guarantee*. In short, we're talking about:



Figure 1.2

*To each according to their needs.*

Here, the slogan popularized by Marx has its symmetry broken because it could be interpreted as implying that there is scarcity of the resources required to ensure the needs of the people of the world, when this is likely not the case, as suggested by global food production capabilities, shown in Figure 1.3. This is with existing food production methods, which involve the atrocity called the animal industry. Leaving aside the horror of this industry, its inefficiency is remarkable: 16 kg of plants are needed to produce 1 kg of meat. A move to veganism would make the unreality of food scarcity even more clear.

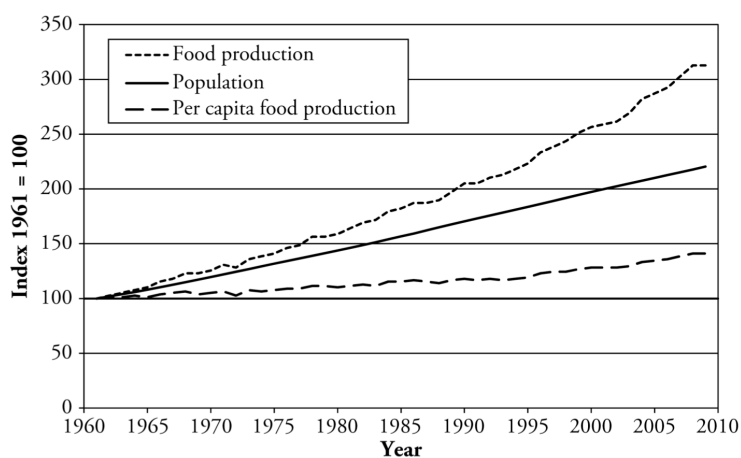


Figure 1.3: World food production from 1961 to 2009 [1]

Often socialists view an ideal economy as one in which remuneration is at least somewhat proportional to the degree of effort and personal sacrifice expended by individuals in the productive process. I argue that remuneration, or otherwise provision of fundamental needs, should not be coupled with ability or desire to commit effort or sacrifice, is a right – a need a person gets to demand.

If there are scarcities of resources needed for protection of fundamental needs, then we do at least have guidelines on what some of the most important needs are, such as the *Universal Declaration of Human Rights* [2] (UDHR), and on how needs are prioritized, an example of which is the *Corte Suprema di Cassazione* ruling on Roman Ostriakov [3], who stole some food in an action that was ruled a necessity for life; “il diritto alla sopravvivenza prevale

78 su quello di proprietà” [the right to survival prevails over that of property] [4], which was  
79 based on the Italian legal doctrine ‘Ad impossibilia nemo tenetur’ [‘No one is held to do the  
80 impossible’].

81 Poverty exists even in the wealthiest nations. For instance, Philip Alston, the United Na-  
82 tions Special Rapporteur offered a statement in 2018 on extreme poverty and human rights  
83 violations in the contemporary UK [5].

84  
British compassion for those who are suffering has been replaced by  
a punitive, mean-spirited, and often callous approach apparently  
designed to instill discipline where it is least useful, to impose a rigid  
order on the lives of those least capable of coping with today’s  
world, and elevating the goal of enforcing blind compliance over a  
genuine concern to improve the well-being of those at the lowest  
levels of British society.

---

Philip Alston, 2018 [5]

85 Regarding anarchy, an introduction to the topic is provided by the Philosophy Tube video  
86 *Intro to Anarchy: Power & Violence* [6]. An early comment on balanced anarchy yielded  
87 by computer networks was given by James Burke in the 1985 documentary series *The Day*  
88 *the Universe Changed* [7].



In describing this utopia as “anarchism,” I might have also used an equivalent expression – “anarcho-communism.” Both terms denote a stateless, classless, decentralized society in which the splits created by propertied society are transcended by new, unalienated human relationships. An anarchist or anarcho-communist society presupposes the abolition of private property, the distribution of goods according to individual needs, the complete dissolution of commodity relationships, the rotation of work, and a decisive reduction in the time devoted to labor. As this description stands, however, we have little more than the anatomy of a free society. The description lacks an account of the physiology of freedom – of freedom as the process of communizing. The description, in effect, lacks those subjective dimensions that link the remaking of society to the remaking of the psyche.

---

Murray Bookchin, *Post-Scarcity Anarchism*

90 Strict self-sufficiency approaches like Mao’s backyard pig iron and Angka’s isolationism have  
91 proven to have a high likelihood of failure, and don’t conceptually work well in a world of  
92 diverse location-based resources. Scotland has wind; Sudan has sunlight.

93 There is a tendency for human-created ideas to vastly prioritise human needs over the needs  
94 of other people and creatures and systems of life. I want to emphasise that the use in this  
95 document of words such as ‘person’ are to be extended beyond humans to others in nature,  
96 including those created by human designs. I want to emphasise also that a fairer society  
97 can be conceptualized only if there is a strong response to the climate emergency [8], and  
98 that the climate emergency has been caused to varying degrees by projects concerned with  
99 domination, profit, growth, structural violence, and general unconsidered unfairness in how  
100 humans treat other humans and life generally.

101 The book *Utopia for Realists* by Rutger Bregman makes the statistical, economic and his-  
102 torical case for open borders and implementation of a universal income guarantee. At a panel  
103 session in Davos 2019 (which was popularized by Bregman emphasising the need for vastly  
104 greater taxation on extreme wealth), Bregman links the socio-economic benefits of war-time,  
105 such as reducing wealth inequality, with the framing of responses to the climate emergency  
106 as “the moral equivalent of a war”. This is an inventive approach that should be investi-

107 gated, because it offers the possibility of addressing the climate emergency in tandem with  
108 the possibility of improving social wellbeing [9]. The *Global Green New Deal*, as supported  
109 by Alexandria Ocasio-Cortez and others, might be used for this purpose [10].

110 Caveat: if the mere existence of a form of commodification, such as the system proposed  
111 herein, impedes progress towards a better world, perhaps by supporting surveillance capi-  
112 talism in some way, then this tool and others like it should be dismissed;

The examined life is actually not worth living.

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113

Natalie Wynn [11]

114 There is a tendency for the powerful to attempt to claim nice-sounding phrases, such as  
115 “Universal Credit”. The UK Universal Credit system is a welfare payments system that  
116 features sanctions and resulting deaths. It is possible that the use of this terminology by  
117 the UK Tory government combined with the disastrous effects of its implementation will  
118 scare people that have been subjected to it into fearing any change to the existing welfare  
119 system and may even induce fear of terms like “universal” because they can represent  
120 oppressive and painful changes. Even terms like “benefits” are manipulative and imply that  
121 welfare is not a right, but a privilege. So, I make no apologies for the use of the laborious,  
122 redundancy-high, term

123 *decentralized unconditional universal income guarantee*

124 because it is more difficult to change the meaning of a larger number of words than a smaller  
125 number. I explicitly exclude terms like “citizen” because an income is demandable by anyone  
126 who needs it.

127

## Chapter 2

128

# What: some terminology

129

## 2.1 Terminology

130

Some slightly non-standard terminology is used in this document, so some of it is qualified

131

in Figure 2.1.

Term	Description
Guaranteed income	A guarantee of money given to a person universally and unconditionally and reliably of an amount defined by some monetary policy.
Guaranteed basic income	A guaranteed income of an amount sufficient to cover basic needs/rights.
Guaranteed median income	A guaranteed income of an amount corresponding to the median income of the relevant population.

Figure 2.1: Terminology

## 132 Chapter 3

# 133 Why and how

### 134 3.1 Imperial capitalism and the class system

135 The current monetary system is both impractical and unfair. Taken in political context, it  
136 concentrates a disproportionate power in a tiny minority of people. This promotes inequality  
137 and injustice and a wealth of other problems, and is readily abused for the purposes of  
138 manipulation and control. The current system rewards and encourages greed and selfishness.

139 There are many, many ways by which the capitalism system enables wealthy individuals  
140 and groups to gain political and legal and otherwise dominative and coercive power, some  
141 of which are lobbying, corruption, disinformation, manipulation and threats, and many of  
142 which involve the undermining of both thinking and wellbeing via stress and poverty. In  
143 societies that permit capitalism (or in those that do not sandbox it), there ends up being  
144 a working class – that is the people who work for someone else – and a capitalist class –  
145 who are the people who have people work for them – and a middle class, which is usually  
146 comprised of working class people who live comfortably with noticeable social privileges  
147 relative to working class people, and those who manage the working class for the capitalist  
148 class (and someone self-employed may be a member of the petite bourgeoisie).

The United States is deeply in debt – that was part of the whole Reagan/Bush program, in fact: to put the country so deeply in debt that there would be virtually no way for the government to pursue programs of social spending anymore. And what “being in debt” really means is that the Treasury Department has sold a ton of securities – bonds and notes and so on – to investors, who then trade them back and forth on the bond market. Well, according to the Wall Street Journal, by now about \$150 billion a day worth of U.S. Treasury securities alone is traded this way. The article then explained what this means: it means that if the investing community which holds those securities doesn’t like any U.S. government policies, it can very quickly sell off just a tiny signal amount of Treasury bonds, and that will have the automatic effect of raising the interest rate, which then will have the further automatic effect of increasing the deficit. Okay, this article calculated that if such a “signal” sufficed to raise the interest rate by 1 percent, it would add \$20 billion to the deficit overnight – meaning if Clinton (say in someone’s dream) proposed a \$20 billion social spending program, the international investing community could effectively turn it into a \$40 billion program instantly, just by a signal, and any further moves in that direction would be totally cut off.

---

Noam Chomsky, *Understanding Power*

150 This scenario suggested by Chomsky, considered with sufficient economic skepticism, is just  
 151 one way by which a coordinated campaign by the wealthy can be formed against a social  
 152 program in order to make it prohibitively expensive.

153 In almost all countries, income and wealth inequalities have increased vastly, partially de-  
 154 fended and concealed from traditional legal systems and economics by wealth stashed in  
 155 tax havens. We have changed from a post-war time of liberalized financial markets to one  
 156 of rentier capitalism, wherein more and more wealth and income is siphoned by owners of  
 157 financial, tangible and intellectual property, leaving even wage labour incomes to stagnate  
 158 and reduce. Governments, often under the financial control of the wealthy, have increased  
 159 subsidies and tax cuts for the wealthy while reducing the welfare states and making such  
 160 things as welfare payments difficult to obtain, often to a deadly extent. Even more alarm-

161 ingly, we see capitalist growth destroying the environment.

## 162 3.2 Artificial scarcity, technologies of decentralization 163 and income

I am now convinced that the simplest approach will prove to be the  
most effective – the solution to poverty is to abolish it directly by a  
164 now widely discussed measure: the guaranteed income

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Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [12]

165 The *Emergency Economic Stabilization Act of 2008* became law on 3 October 2008 for the  
166 purpose of bailout of banks in the 2007–2008 sub-prime mortgage fraud.

167 While development of ideas like it took place over many years, the original *Bitcoin* paper [13]  
168 was then released on 31 October 2008, in possible response to this bailout, with the coinbase  
169 field of the genesis block stating “The Times 03/Jan/2009 Chancellor on brink of second  
170 bailout for banks.” [14]. While the bailout act of 2008 was followed up by the *Dodd–Frank*  
171 *Wall Street Reform and Consumer Protection Act* in 2010 to reduce fraudulent and risky  
172 behaviour, Bitcoin has continued to grow and has resulted in the development of a vast  
173 collection of other cryptocurrencies.

174 Just as Napster and BitTorrent led to a global decentralized mechanism of opposition to  
175 artificial scarcity of easily-duplicable data, and a decentralized mechanism of protection of  
176 certain rights, such as the UDHR Article 27(1) right to cultural participation and artistic  
177 enjoyment, so too has Bitcoin become a global decentralized mechanism that bypasses au-  
178 thoritarian mechanisms of enforcement of monetary policy, and a mechanism of protection  
179 of certain rights, such as the UDHR Article 12 right to privacy (applicable in the case of  
180 being able to access drugs currently called illegal by authoritarian regimes), the UDHR  
181 Article 22 right to economic participation (of particular benefit to people in poverty who  
182 cannot access banking systems and who are excluded because of risks of fraud) and the  
183 UDHR Article 19 right to freedom of expression (I will accept an IOU from anyone I per-  
184 sonally deem fit, thanks very much). It also assists in decreasing economic borders, such

185 as country-level sanctions and the forced sale of work for unfair rates. We see explorations  
 186 of blockchain social networking with Memo [15]. We see the Bitcoin blockchain used as a  
 187 notary with Satoshi Proof [16], whereby data can be reliably timestamped. We saw M-Pesa  
 188 change from a measure of phone air-time to being a proxy used for money transfer. With  
 189 government viewed as being substantially a form of technology, many other decentralized  
 190 systems hint at other ways of forming and operating a decentralized government. One is the  
 191 gradual migration of people away from brand loyalty to ratings loyalty. One is the usage  
 192 of VPN servers in various countries. As seen in the VPN server loads per country shown in  
 193 Figure 3.1 and Table 3.2, perhaps certain inferences could be made about the popularities  
 194 of various countries in terms of their privacy, legal or government climates.

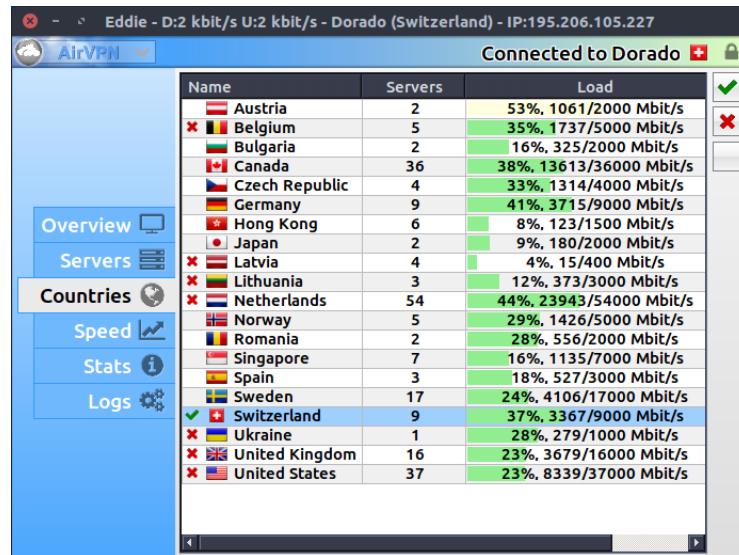


Figure 3.1: Load on VPNs of various countries in April 2019

Country	Load (%)
Austria	53
Netherlands	44
Germany	41
Canada	38
Switzerland	37
Belgium	35
Czech Republic	33
Norway	29
Romania	28
Ukraine	28
Sweden	24
United Kingdom	23
United States	23
Spain	18
Bulgaria	16
Singapore	16
Lithuania	12
Japan	9
Hong Kong	8
Latvia	4

Figure 3.2: Ordered load on VPNs of various countries in April 2019



195 Article 25 of the *Universal Declaration of Human Rights* states:

196 1. Everyone has the right to a standard of living adequate for the health and well-being  
197 of himself and of his family, including food, clothing, housing and medical care and  
198 necessary social services, and the right to security in the event of unemployment,  
199 sickness, disability, widowhood, old age or other lack of livelihood in circumstances  
200 beyond his control.

201 2. Motherhood and childhood are entitled to special care and assistance. All children,  
202 whether born in or out of wedlock, shall enjoy the same social protection.

203 One way to ensure these UDHR Article 25 rights is through a decentralized mechanism  
204 of protection offered by a *decentralized unconditional universal income guarantee*. The de-  
205 centralization aspect is critical because it ensures the global and universal nature of the  
206 protection, distancing it from implementation by an authority (which could change or re-  
207 scind it, as has happened for other welfare measures in semi-welfare states like the UK) and  
208 reducing all borders (helping to progress to a point where no one is forced to sell their work  
209 at an unfair price).

Those at the lowest economic level, the poor white and Negro, the  
aged and chronically ill, are traditionally unorganized and therefore  
have little ability to force the necessary growth in their income.  
210 They stagnate or become even poorer in relation to the larger  
society.

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Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [12]

211 A decentralized system such as that described here *is* a means of organizing the poor.

212 It is here suggested that an unconditional universal income guarantee is a possible way to  
213 undermine the inherent features of the capitalist system of oppression, domination, coercion  
214 and artificial scarcity, and it is also suggested that even if an effort to undermine those  
215 systems were not successful, so making the artifical scarcity an intractable problem, that  
216 the unconditional universal income guarantee could be a plug-in economic mechanism that  
217 acts as a constant mitigation to the capitalist system (and other oppressive systems). As  
218 MLK put it, “*We have come to the point where we must make the nonproducer a consumer*

219 or we will find ourselves drowning in a sea of consumer goods.” [12]. The Marx/Engels  
220 concept of *withering away of the state* is used to suggest that realization of the ideals of  
221 socialism using the social institutions of a state makes the realized socialism self-sustaining  
222 without the need for the state. In a complimentary way, though in the same spirit, the  
223 unconditional universal income guarantee could be a method of withering those mechanisms  
224 of oppression, both private and state, that impede both greater protection of known rights  
225 and the exploration that is in pursuit of unknown rights. Use of a decentralized income  
226 could be a *Propagande par le fait* [*propaganda by the deed*], a political action which is an  
227 example to others and serves as a catalyst for revolution. The idea is both to inspire a spirit  
228 of revolt by demonstrating that the authorities are not omnipotent, and to offer hope to the  
229 downtrodden. It is an approach that was approved in 1881 at the *International Anarchist*  
230 *Congress of London* [17].

231 It has been suggested that a guaranteed income is possibly best seen as a reform to the  
232 existing monetary distribution systems and as something that exists in a free market econ-  
233 omy. It could modestly reduce economic inequality in a number of ways, the least of which  
234 is likely to be because a flat-rate regular payment represents a larger share of the income  
235 of a poor person than it would for a wealthy person. It could reduce economic insecurity  
236 and chronic economic uncertainty by strengthening social insurance against flexible labor  
237 markets and technological disruption, particularly the continued rise of intelligent automa-  
238 tion [18]. It, particularly as a decentralized, borderless system, could mitigate the global  
239 pandemic of stress and depression. Indeed the evidence suggests that even the guarantee as-  
240 pect, rather than the exact size, of the income reduces the intensity and prevalence of stress,  
241 with that in itself giving people more control. Both the Ontario 2017 and Finland 2017 ba-  
242 sic income studies (both of which were ended prematurely) suggested a sharp decline in  
243 domestic violence and depression. A guaranteed income would also mitigate the disgusting  
244 “targeting” approach for welfare payments inflicted on poor people by governments through  
245 means-testing and behavior testing, often implemented by for-profit private companies with  
246 a deadly conflict of interest. So in some senses an unconditional universal income guarantee  
247 is protection of the right to economic security. It also slightly disincentivises high-profit,  
248 low-effort activities.

249 Another important consideration is that insecurity, inequality, stress and precarity may be  
250 associated with neo-fascism.

251 Global warming, climate change, pollution, and falling life expectancy rates all can be  
252 collected under one term: extinction. As was seen with les gilets jaunes in France, unfair  
253 distributions of taxation are unpopular because the poor are made to pay proportionately  
254 more of their income than the wealthy. Steps in the right direction are seen in Canada and  
255 Switzerland, where high fuel and other eco-taxes are imposed with proceeds returned to the  
256 people in the form of “carbon” or common dividends. A cross-party group in the USA has  
257 advocated a similar approach with the support of 27 Nobel Prize economists. Basic income  
258 studies have shown that those that receive it tend to do more useful work that is ecologically  
259 and socially desirable, as opposed to resource-depleting labor (as Bregman calls it “bullshit  
260 jobs”).

261 The 2019 paper *Basic Income for All: From Desirability to Feasibility* [19] suggests that, in  
262 the UK, a basic income would:

- 263 • pay a significant, no-questions-asked amount of 10,400 GBP per year to a family of  
264 four,
- 265 • cut child poverty by more than a third and pensioner poverty by almost a third,
- 266 • narrow the inequality gap,
- 267 • lead to gains for three quarters of all households, with the largest gains among the  
268 poorest households,
- 269 • strengthen the universal element of the benefits system and reduce dependency on  
270 means testing and
- 271 • would take the UK back to the level of social security spending of 2010, but with much  
272 more progressive and universal outcomes.

273 The paper considers a few options for the introduction of a universal income guarantee,  
274 seeking to address particularly the usual criticism: that the income amount is either too  
275 small to make much of a difference or too generous to afford. I wish to emphasise that  
276 the exact amount of the income, which is distinct from other forms of social aid, such as

277 disability support, *must* change such that it provides enough for fundamental needs. The  
278 10,400 GBP number is merely a guide number that is suggested by a paper considered in  
279 the context of the current political climate.

280 The 2019 paper *A Larger Us* [20] suggests three transitions that are needed for happier,  
281 healthier, more resilient democracies:

- 282 • from fight-or-flight to self-awareness,
- 283 • from powerlessness to agency, and
- 284 • from disconnection to belonging.

285 I feel it's possible that the guaranteed income system proposed here could assist with the  
286 second and possibly the third transitions.

287 The Stockton Economic Empowerment Demonstration (SEED) [21] is a city-led guaranteed  
288 income project which involves providing at least 100 people of Stockton with a guaranteed  
289 income of 500 USD for 18 months using prepaid debit cards. It plans to make a number  
290 of measurements, such as changes in financial wellbeing, psychological distress and physical  
291 functioning. For the case of financial wellbeing, measurements of income volatility and  
292 unsecured debt will be made. In similar experiments, it has been observed that individuals  
293 tend to use surplus income to pay down debt. For the case of the health indicators of  
294 psychological distress and physical functioning, measurements are to be made using the  
295 SF-36 and the Kessler 10 and through qualitative interviews.

296 The paper *No Strings Attached: The Behavioral Effects of U.S. Unconditional Cash Transfer*  
297 *Programs* [22] summarizes the empirical evidence from three major U.S. guaranteed income  
298 experiments. In these experiments, educational achievement increased, health outcomes  
299 substantially improved, and there was little effect on labor market supply.

Two conditions are indispensable if we are to ensure that the guaranteed income operates as a consistently progressive measure. First, it must be pegged to the median income of society, not at the lowest levels of income. To guarantee an income at the floor would simply perpetuate welfare standards and freeze into the society poverty conditions. Second, the guaranteed income must be dynamic; it must automatically increase as the total social income grows. Were it permitted to remain static under growth conditions, the recipients would suffer a relative decline. If periodic reviews disclose that the whole national income has risen, then the guaranteed income would have to be adjusted upward by the same percentage. Without these safeguards a creeping retrogression would occur, nullifying the gains of security and stability.

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Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [12]

As a decentralized plug-in, or virus, for existing political systems, an unconditional universal income system might broadly be intended to move things towards equality of outcomes – for people, species and ecosystems generally (where equality of outcomes is here supposed to mean broadly a fair distribution of satisfaction with life, including satisfaction with degree of autonomy and perhaps including equality of perception), and towards non-competitive behaviours. One candidate form of politics for pursuit of this is Murray Bookchin’s communalism. Shortcomings in the anarchic approach, however, concern tyranny of the majority; specifically, the author suspects that a more protective approach should be considered in order to ensure the needs of minorities instead of assuming that the anarchy system perfectly undermines tyrannical, dominative and oppressive behaviours. Welfare should be a part of whatever system is implemented to attempt to ensure that there is a social safety net that ensures that rights such as those listed in the *Universal Declaration of Human Rights* cannot be denied. An example of tyranny under a purported anarchic system is the pogroms, banditry and sexual abuse in the Free Territory of Ukraine [23].

The feature of the proposed system of a network of social trust also has the possibility of not just protecting the UDHR Article 27(1) right to cultural participation, but could also increasing the extent of that right by encouraging people to participate more fully in

society. However, as the income is unconditional, universal and guaranteed, there should be protections for those that do not wish to participate in the cultural life of society or are excluded from society, such as has been the case of despised minorities, examples of which have been Jewish people, sexuality minorities and gender minorities. Fully addressing such social exclusion is beyond the scope of this document, but the decentralized system should feature some protections against it and the system itself should not feature social exclusion capabilities, the likes of which are seen in the *Black Mirror* 2014 Christmas special *White Christmas* [24].

Rutger Bregman’s *Utopia for Realists* has a chapter *Why It Doesn’t Pay to Be a Banker* which [spoiler] compares a strike of bankers and bank employees in Ireland with a strike of sanitation workers in New York City. In 1968, the sanitation workers took the illegal option of striking, resulting – in a matter of six days – in a declaration of a state of emergency and – in a matter of nine days – in the sanitation workers getting their way. The bank employee strike of 1970 lasted six months, and the Central Bank of Ireland concluded that “The Irish economy continued to function for a reasonably long period of time with its main clearing banks closed for business” and, indeed, the economy grew. During this strike, Irish people continued writing cheques, effectively printing their own cash, with the only difference in the character of the cheques being that they couldn’t be cashed at banks. Instead, dealers such as publicans could act as verifiers of trust and could accept the cheques. It was a decentralized monetary system and it seems to have worked because of social cohesion. I myself recall that this sort of fractional reserve banking certainly did not stop after this strike and was implemented in my home town of Longford via Doyle’s pub, seen in Figure 3.3.



Figure 3.3: Doyle's pub [25]

340 Bregman suggests that the fact that the Irish people implemented this decentralized banking  
341 makes it clear that the society needed some form of financial sector.

342 It is beyond the scope of this document to describe and evaluate past implementations of  
343 basic income and past implementations of anarchism, but the book *Utopia for Realists* gives  
344 the former and histories of the Spanish anarchists, the peak implementation of modern an-  
345 archism, give the latter. However, I can mention that the slogan of the CNT/FAI anarchists  
346 was “Ni dios, ni estado, ni patrón” [No god, no state, no boss], widespread by the Spanish  
347 anarchists since 1910.

348

I had dropped more or less by chance into the only community of any size in Western Europe where political consciousness and disbelief in capitalism were more normal than their opposites. Up here in Aragon one was among tens of thousands of people, mainly though not entirely of working-class origin, all living at the same level and mingling on terms of equality. In theory it was perfect equality, and even in practice it was not far from it. There is a sense in which it would be true to say that one was experiencing a foretaste of Socialism, by which I mean that the prevailing mental atmosphere was that of Socialism. Many of the normal motives of civilized life—snobbishness, money-grubbing, fear of the boss, etc. — had simply ceased to exist. The ordinary class-division of society had disappeared to an extent that is almost unthinkable in the money-tainted air of England; there was no one there except the peasants and ourselves, and no one owned anyone else as his master.

---

George Orwell, *Homage to Catalonia*

349 As summarized in the documentary about Rojava *Accidental Anarchist*, contemporary move-  
350 ments such as Occupy Wallstreet, Occupy Sandy and, more recently, Extinction Rebellion  
351 are collectives of direct democracy, mutual aid and, arguably, socialist forms of anarchy.

352

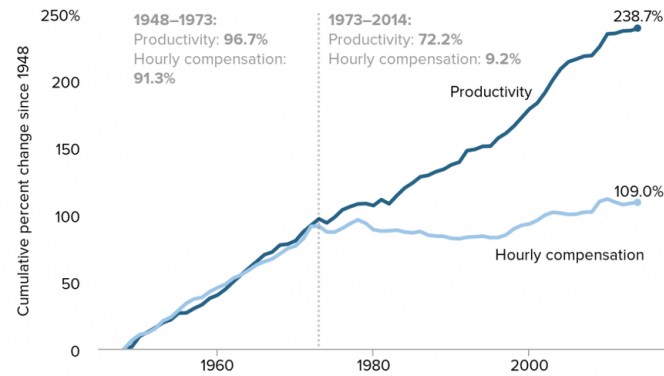
The opposite of government-imposed order is not chaos: there's a deeper order concealed within human society which relies not upon coercion but cooperation and trust, built not by governments or politicians, but by people who realise at last their own true power.

---

Carne Ross, *Accidental Anarchist* [26]



### Disconnect between productivity and a typical worker's compensation, 1948–2014



**Note:** Data are for average hourly compensation of production/nonsupervisory workers in the private sector and net productivity of the total economy. "Net productivity" is the growth of output of goods and services minus depreciation per hour worked.

**Source:** EPI analysis of data from the BEA and BLS (see technical appendix for more detailed information)

Economic Policy Institute

Figure 3.4

353 With technological, educational, and medical improvements, productivity has increased mas-  
 354 sively over at least the last century, however, compensation has not been increasing to match  
 355 it, as shown in Figure 3.4. This is plausibly something of a result of a fundamental problem  
 356 described by Marx: ownership of the means of production, and likely many other sneaky  
 357 methods besides. While taxation of automation is one approach to address this disparity,  
 358 decentralized ownership of the means of production, perhaps by means of decentralized  
 359 income and wealth redistribution, and it is an approach that does not (at least at face  
 360 evaluations) require much battle with existing power structures.

361 In all of the unconditional universal income guarantee experiments (run everywhere from  
 362 New Jersey to Pennsylvania to Iowa to North Carolina to Indiana to Seattle to Denver  
 363 to Finland, Mincome in Manitoba, as well as some smaller ones in Africa) the approach  
 364 improved health and education, boosted the economy, and ended poverty. Apart from  
 365 new mothers, people didn't tend to work less when they received this income. In fact,  
 366 particularly as seen in the African unconditional universal income guarantee experiments,

367 having a reliable income enabled people to have more free time to educate themselves so  
368 that they could advance to a new form of work, perhaps more enjoyable or meaningful, or  
369 to start businesses or generally to take more risks. Even the likes of Nixon and Rumsfeld  
370 were pretty much convinced by it [27]. *Utopia for Realists* by Rutger Bregman presents a  
371 referenced analysis of the idea as it has been implemented through history.

372 While climate emergency and denial of fundamental needs are powerful justifications for  
373 efforts on caring methods to undermine capitalism, there is another concern: Yuval Noah  
374 Harari emphasized the urgency of building decentralized information processing systems  
375 that are more efficient than fascist information processing systems in the 2018 TED talk  
376 *Why fascism is so tempting – and how your data could power it* [28].

We are witnessing the gradual disappearance of the postwar British  
welfare state behind a webpage and an algorithm. In its place, a  
377 digital welfare state is emerging. The impact on the human rights of  
the most vulnerable in the UK will be immense.

---

Philip Alston, 2018 [5]

### 378 **3.3 Decentralized unconditional universal income guar-** 379 **antee system**

A hundred times every day I remind myself that my inner and outer  
life are based on the labors of other men, living and dead, and that I  
380 must exert myself in order to give in the same measure as I have  
received and am still receiving...

---

Einstein

381 It is possible that the emergence and rise to cultural prominence of cryptocurrency and  
382 networks of trust, which may be viewed as an extension of the free culture movement, offers  
383 a possibility of escape from the current systems of oppression and better ideas that it to  
384 improve the wellbeing of creatures of this world. A combined system of a social trust graph  
385 together with crypto verification is here referred to as a *crypto-trust* system.

386 Government, politics and monetary systems all can be viewed as technologies. Viewed  
387 as such, societal problems are technological in origin. Most of the ideas in the current

388 monetary and political systems were designed centuries ago, and they feature limitations  
389 which suggest that the imaginations of their creators were limited by the comparatively  
390 primitive technology of their times. The limits of our language, so to speak, are the limits  
391 of our world.

392 The speed of light appears to be an important constraint of computational efficiency; a  
393 galaxy size computer would be slower than a microchip computer because of the distance over  
394 which computational elements must communicate. So, computational efficiency requires  
395 that we explore methods of decentralizing and distributing computations such that as much  
396 local computation as possible is accomplished. A decentralized or distributed system for  
397 monetary and welfare and history policies is needed for computational efficiency and will  
398 become more necessary as we expand throughout the cosmos.

399 Algorithms like Bellman-Ford can be used to determine arbitrage paths and flows of value  
400 between people, business, countries, city states and other entities. This, together with other  
401 considerations such as the number of users to which income is due, might be used by an  
402 automated decentralized unconditional universal income guarantee system to determine the  
403 income amount attributed to users per unit time, and might be used for funding and bailout  
404 calculations in order to improve economies.

405 An attempt has been Grantcoin, now called Manna [29]. Manna is administered by a  
406 US non-profit organization. While perhaps well-intentioned and inherently against borders  
407 (due to its use of a decentralized blockchain), Manna features a number of flaws, one of  
408 which is the organization acting as a gatekeeper, another being the organization acting as  
409 a centralized control over the monetary policy, and another being the possibility to invest  
410 in the currency. It intends to model itself on the Alaska Permanent Fund, which is a form  
411 of income paid to all Alaskans which arise from profits from a capital reserve fund. Its  
412 emphasis is more on altruism and charity than on rights. Fundamental rights shouldn't be  
413 subject to the whims of charity – that's why they're called rights. So, I view the emphasis of  
414 the Manna approach as fundamentally flawed. However, the opening of the Manna mission  
415 statement is perhaps worth repeating:

We, the people of the world, recognize and declare that money is a social invention which can be changed by the people according to our values. As we witness the growing scourge of inequality and its consequences, we see that the existing system is unjust and unsustainable. Recognizing and accepting the moral obligation that arises from such knowledge, we stand united in the decision to create a better alternative: a currency of conscience designed to facilitate the emergence of a more just and sustainable global economic system.

---

*Money By the People, For the People: The Manna Vision and Mission* [30]

A decentralized unconditional universal income guarantee system might be defined by the following ideas:

- Blockchain is used to ensure the integrity of the currency (well, currencies) via distributed consensus, in the manner of Bitcoin and Ethereum.
- A social trust graph is used to attempt to ensure that there is a one-to-one relationship between a user and a wallet, in other words a defence against Sybil attack. This can be supplemented by gatekeepers of various forms.
- An income rate definition or inflation/deflation algorithm, a basic version of which sets the income rate in proportion to the number of users in the system.

### 3.3.1 Blockchain

Blockchain is a reusable proof-of-work (effort/energy/work-based) approach to decentralized/distributed ensurance of integrity of a record. Similar approaches that are energy-efficient are under exploration currently.

The decentralized unconditional universal income guarantee system features individualized colored cryptocurrencies [31], with a specific color of currency corresponding to a reported user, which is defined when the user joins the system. The user receives income in the form of their colored currency over time, at a variable open source rate, which might be calculated by reference to the number of users in the system and by reference to more complicated

435 ideas, such as open source economic analyses to lower the time it might take to reach societal  
436 economic prosperity or wellbeing more generally.

437 The Austrian school of economics, which arguably features shortcomings like pure logical de-  
438 duction and a lack of scientific rigor, underlies the design of Bitcoin, with Bitcoin resembling  
439 gold.

### 440 3.3.2 Decentralized/distributed social trust graph as Sybil defense

441 The social network Facebook has a security facility that enables a user to nominate a number  
442 of friends to vouch for them when they lose access to their account, as shown in Figure 3.5.  
443 This vote of confidence is a network of trust.

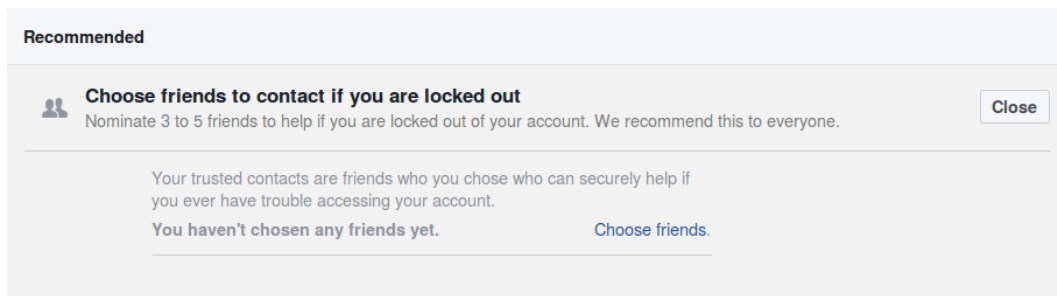


Figure 3.5: Facebook trust network

444 Graph-based Sybil defences can use social network graph properties to distinguish Sybil  
445 users from legitimate users. Some assumptions in a Sybil defense strategy could be that the  
446 legitimate social network graph features fewer edges between user vertices than the Sybil  
447 social network graph and that a Sybil user cannot produce meaningful interactions in the  
448 legitimate social network graph, even if it may infiltrate it. Other strategies have been  
449 considered [32].

450 In this proposed social trust graph Sybil defense, in a sense, a social contract is being  
451 created wherein a user receives money unconditionally to engage with their community. It  
452 is hoped that the social trust graph will be secured fundamentally by a careful population  
453 and population scale ideas like “six degrees of separation” [33], with analyses and gatekeepers  
454 as supplementary protections. New users are given a currency that is worthless by default

455 and they must take steps to increase its value. These social steps are the formal barrier to  
456 participation.

457 The canton of Zug is a region of Switzerland that has a low tax rate and a startup culture.  
458 In 2017 Zug started to use uPort [34] for its Zug ID [35]. uPort is decentralized by storing  
459 identity data on IPFS and by using the Ethereum blockchain, but the Zug ID involves  
460 centralized gatekeeping by in-person verification by a city administrator. It was scheduled  
461 to be used to test non-binding voting in 2018. This Sybil defense could be used but only as  
462 a supplement to decentralized/distributed Sybil defences. This is because such a centralized  
463 gatekeeper could make people beholden to it. Consider a bad, authoritarian government  
464 implementing income using a gatekeeper. It could wait until people are familiar with this  
465 form of income and dependent on it, and then could start making demands on people to  
466 comply with it in order to keep receiving the income. Defences against such authoritarian  
467 control must be present in the system. The idea of a basic income arises from rights, not  
468 from a gatekeeper, whether that gatekeeper be a government office or a charity.

469 Gatekeepers *are* permitted in the system – one could imagine businesses, governments,  
470 social groups, living groups *etc.* having specific validation requirements or other logics to  
471 determine group membership. This would be a level of validation above the basic validation  
472 provided by the social trust graph, a level of validation which must be reasonably achievable  
473 by all users.

474 In this proposed decentralized unconditional universal income guarantee system, users have  
475 the ability to trust the personal currencies of other users, which requires them to treat this  
476 personal currency identically to any other currencies that they trust. As the social trust  
477 graph becomes more interconnected, it is hoped that these personal currencies converge  
478 on a single universal monetary system. All users receive income at the same open source  
479 calculated rate, meaning that new money is distributed equally to all users at all times.  
480 This income generation is the only way new money is created.

481 Strangers wanting to exchange money automatically search for a transitive chain of trusted  
482 currencies between each other. The payer trades along this chain of trusted currencies, one  
483 after the other, until they have one that the recipient needs. Such exchanges working in  
484 practice require a reasonable number of users in the system. Up to that point, the system is

485 little more than passing IOUs between trusted users. Something like this routing capability  
486 exists in the form of the Bitcoin Lightning network.

### 487 3.3.3 Demurrage, inflation and deflation

488 Demurrage, or negative interest, is the cost associated with holding a store of value over  
489 a time [36]. For commodities such gold, demurrage is the cost of storing and securing it.  
490 For currency, it can take the form of a periodic tax, such as stamp tax, on currency hold-  
491 ings. The goal of demurrage currency is to ensure that cash is *cash flow safe*, wherein  
492 money is sure to return into the cash flow and this is accomplished not through inflation  
493 or deflation (though these are not excluded from the currency) but through periodic scrip  
494 payment to ensure that the money remains valid. The idea was suggested by Silvio Gesell,  
495 a German theoretical economist and anarchist libertarian socialist, as a way to undermine  
496 the privileged position held by currency compared with capital goods and to undermine  
497 entrenchment of the financial elite [37]. The concept has been tested in the Bavarian cur-  
498 rency *Chiemgauer* which requires an effective payment of 2 % of the value of a currency  
499 note every three months in order to maintain the validity of an individual bill in order to  
500 undermine hoarding and also has been tested in the short-lived local Schilling currency of  
501 the city of Wörgl, which appears to have protected the city from the economic depression  
502 in Germany of the 1930s [38, 39]. The Swiss WIR Frank (Wirtschaftsring-Genossenschaft  
503 [economic circle cooperative]) initially also featured ideas from Gesell [40]. A cryptocur-  
504 rency that implements a form of demurrage is Freicoin, though Freicoin has the demurrage  
505 fee paid to the developers as opposed to all other users [41]. The Freicoin documentation  
506 suggests that Freicoin is an implementation of Bitcoin which loses approximately 5 % of its  
507 value per year, with destroyed money taken out of circulation and minted coins created and  
508 distributed to miners, with the intention that the real capital required to secure the network  
509 is comparable to the payments of newly minted coins.

510 Keynes considered demurrage currencies and concluded that having currencies experience a  
511 reasonable rate of inflation is preferable, and has the same effect of promoting investment  
512 and spending [42].

513 Inflation is used to disincentivize hoarding and to encourage economic activity. In a basic

inflation scheme, all user currencies issue progressively larger amounts of income per unit time, and this includes new users (ensuring that some mitigation of the Monopoly problem is built into the system – new players have a fair chance in the game).

### 3.3.4 Existence in tandem with other currencies

In the case of the *Chiemgauer*, there are different rules for nonprofits and businesses. Nonprofits are incentivized to purchase Chiemgauer by adding 3 % to the value on converting from Euros to Chiemgauer and businesses are incentivized to stay in the Chiemgauer system by taking a 5 % commission from the value on converting from Chiemgauer to Euros.

### 3.3.5 Exchange rates

The default system enforces a one-to-one exchange rate between all personal currencies, but less trusted users have currencies that are less valuable than established user currencies. This might be addressed by empowering users to limit the amounts they are willing to accept from other users. Such an approach could cautiously be suggested as a way for some majority of the population (perhaps as defined democratically in code) to limit the economic power of certain powerful people. Investigations resulting in the Panama Papers and the Paradise Papers tell us of wealthy people of the world (often people who have that wealth through little expended time or effort, sometimes called inheritance or siphoning) that are part of an enormous criminal conspiracy to dodge taxes and to hoard wealth in offshore accounts, yet such conspiracies are resilient to traditional economic and legal mitigations. A global, decentralized monetary policy might offer a mitigation to these methods that is not currently offered by existing systems of law and economics.

Methods of preventing bad mob rule (e.g. a population generally distrusting and disconnecting from a user for reasons other than trustworthiness) should be considered. Perhaps there is a gatekeeper that represents rights (as opposed to tyranny of the majority) that can enforce verification of users or anonymisation of a user personal currency, though there should not be a gatekeeper that can exclude a user from the decentralized unconditional universal income guarantee.



### 541 **3.3.6 National credit**

542 This could be a part of the system that stores a small amount when it has beyond the  
543 resources needed to pay all guaranteed incomes. This amount is used to ensure guaranteed  
544 incomes when there are economic downturns. Could the system feature the ability to loan  
545 to itself in certain circumstances? This would be decided by economists.

### 546 **3.3.7 Revolution**

547 The system should be reliable and resilient. Bitcoin and Ethereum have been subject to  
548 intense hacking attempts and scrutiny so these should likely feature as the codebase, with  
549 Ethereum being the more likely candidate because it is more easily programmable.

550 How can the proposed system draw power from the existing systems? A group of people  
551 could agree to trial the system. The group will likely feature a mix of incomes and none. In  
552 participating, one approach could be for participants to give some fraction of their income  
553 to the system. The group should be designed such that the combined income divided  
554 equally between all participants is sufficient for a income, perhaps of median value, for all  
555 participants.

556 On a larger scale, the enticement of the ‘free’ currency accessible to people for a one-time  
557 small degree of effort (comprising solely of installation of a program) could be enough. To  
558 use the currency there is then the effort of building a few social connections/verifications.  
559 Outreach in order to educate about the system would be straightforward. Perhaps people  
560 like Ash Sarkar and Owen Jones could be helpful at popularisation. A contact for political  
561 association could be Michael Tubbs (SEED). Contacts for technical evaluation could be  
562 Stacia West (SEED) and AmyCastro Baker (SEED).

563 One noteworthy point raised in documentation on the Stockton Economic Empowerment  
564 Demonstration (SEED) [21] is that a declared income, such as a guaranteed income, could  
565 impact existing social welfare payments because these often are means-tested. Secrecy or at  
566 least legal waivers would be needed to address this system if the groups implementing the  
567 system were not able to have the guaranteed income at a basic income level. Happily tech-  
568 nologies for financial privacy exist in the forms of Zcash and Monero and perhaps Ethereum

569 and private social trust authentication is a totally separate system which is merely used by  
570 the cryptocurrency system.

571 Cryptocurrencies tied to the value of traditional fiat currencies such as the Euro may be  
572 of assistance at the boundaries between the system proposed here and the existing capital-  
573 ist world, perhaps by providing a means of uneasily-censorable use of the traditional fiat  
574 currency. One suggestion is the stablecoin xEURO [43].

575 Publically demolishing the arguments of the protectors of the wealthy could involve empha-  
576 sis such as that used by MLK on consumerism: “*We must create full employment or we*  
577 *must create incomes. People must be made consumers by one method of the other*” [12]. I  
578 suggest, having seen video of people employed to cut grass using scissors in the Democratic  
579 People’s Republic of Korea and having heard reports from my parents of USSR Moscow  
580 toilet attendants (one employed to greet, one to open the cubicle door, one to hand the  
581 single pieces of toilet tissue and so on) that the latter must be the emphasis.

I believe we oughta to do all we can, and seek to lift ourselves by our  
own bootstraps but it’s a jest to say to a bootless man that he  
582 oughta lift himself by his own bootstraps.

---

Martin Luther King, Jr.

### 583 3.4 Monetary policies with guaranteed income

584 A 2017 paper [44] emerged from the *New England Complex Systems Institute*, which was  
585 founded by theoretical physicist Yaneer Bar-Yam, who is known for having predicted aspects  
586 of the Arab Spring by using the observation that violence and riots occur at peaks of the  
587 global food price index. The paper describes a capitalist economic system featuring two  
588 main cycles that are balanced against one another, one for wages and consumption (the  
589 labor cycle), and one for investment and returns (the capital cycle), while treating the role  
590 of banks and government as providing monetary injections into those cycles.

591 The first cycle is that of workers receiving income and consuming goods and services. The  
592 second cycle is that of the wealthy investing in production and receiving returns on their  
593 investments. For growth to happen in this capitalist system, the two must be in a certain

594 balance. If there is too much money in the worker cycle then there are not enough things  
595 to purchase. If there is too much money in the investment cycle then consumers don't  
596 have enough money to buy things so investment doesn't happen. The paper suggests that  
597 prior to 1980 there was too much money in the worker/consumer cycle, with money chasing  
598 too few products, giving rise to inflation. After 1980, the balance changed the other way,  
599 likely due to the Reganomics tax changes. There was too much money in the investor cycle  
600 and the result has been a series of recessions, perhaps mitigated by the likes of the Federal  
601 Reserve intervening by lowering interest rates in order to increase borrowing ability, in order  
602 to increase consumption – while income continued to be too low.

603 The paper suggested that the way government is regulating the economy is analogous to  
604 driving a car using only the accelerator and without using the steering wheel, where steering  
605 corresponds to keeping the balance between the two cycles in some good proportion. While  
606 Federal Reserve interventions may have helped overcome the recessions, today we are up  
607 against the roadside guard rail and need to rebalance the economy by shifting money back  
608 to the worker/consumer cycle.

609 The paper suggests that current approaches to correcting economic problems by reducing  
610 government spending (austerity), while decreasing taxes for the wealthy in order to promote  
611 investment, are wrong. They may have been somewhat helpful in 1980 but they are long  
612 outdated today. Economic inequality is not simply a social justice problem, but also an  
613 economic problem. Fixing economic inequality will have dramatic benefits for economic  
614 growth.

615 The analysis suggested that the current USA regulation of economic activity that focuses on  
616 monetary policy has missed the problem of regulating the relative strength of flows in the  
617 two cycles. Simply, the presence of two flows and one control variable cannot be expected  
618 on general principle to function well.

619 The paper recommends a shift towards policies that inject money into the wages and con-  
620 sumption cycle in order to increase economic growth. The authors note that this is the  
621 same recommendation that would arise from considering the problem of income inequal-  
622 ity. So, the research supports advocates of greater income and/or government support for  
623 the poor, who use a larger fraction of income for consumption. Even within this capitalist

624 thinking, the conclusion is that wages must be increased in order to create more investment  
625 opportunities for the wealthy, thus advancing to a stronger economy.

626 The paper acknowledges the notable contributions of the Federal Reserve as a mitigating  
627 and stabilizing influence, but notes that its abilities have reached their limits, because  
628 the effectiveness of using monetary policy in and of itself as a mechanism of regulation of  
629 economic growth has reached its limits. The paper goes on to predict another recession  
630 on the time scale of a few years. It concludes that a new policy that redirects money for  
631 consumption is needed to increase economic activity: “Traditional wealth redistribution  
632 appears to be essential for renewed economic growth”.

633 Most people are workers, not investors. Since more workers are impacted when there are  
634 problems with the economic systems at play, at the very least, workers should have control  
635 over this balance. If workers and investors are the same thing you have a form of Marxism.

636 The system proposed here enables a rebalancing of these cycles by guaranteed income and  
637 also enables members of the system to demonetize the investor class by reducing the weight-  
638 ing that is the exchange rate accepted for the currencies of members of the existing investor  
639 class.

## Chapter 4

## Other uses

### 4.1 Reparations and debt forgiveness

Large groups within social trust networks could conclude that they are due reparations and the system could feature some reweighting of all currencies in the system such that a large group that is due reparations is granted the reparations in the form of, say, preferential exchange rates. An ideal example would be an attempt to bring people today to the economic state they would have been at were slavery not to have happened. Conversely, large groups within social trust networks could mitigate or cancel debt of others if the debt is deemed unfair.

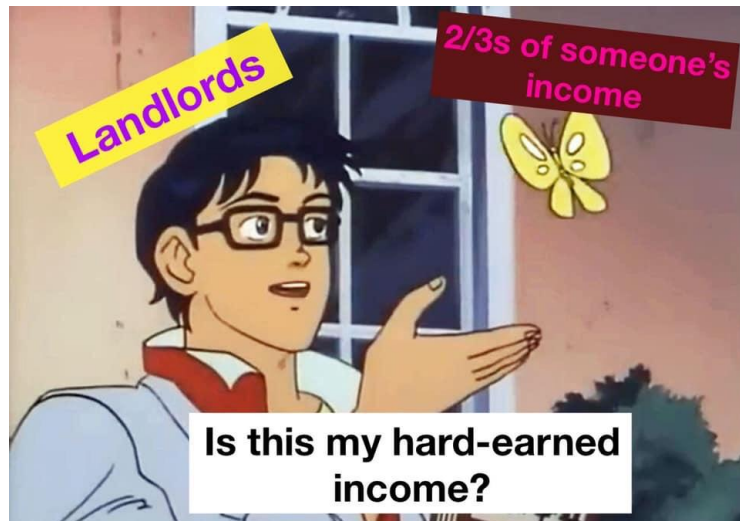


Figure 4.1

650 At smaller scales, other debts and expenses could be mitigated. For example, in the time  
651 before landlords are abolished, the exchange rates of landlords could be defined by society  
652 to be of a worth that means that any rents they have received are immediately redistributed  
653 back to the renter.

## 654 4.2 Direct democracy

655 Switzerland is a country with one of the more direct democracies. A crypto-trust system  
656 could make the running of direct democracy, popular initiatives, voting, power of recall, and  
657 so on much less laborious.

## 658 4.3 Surveillance and privacy, and proletariat control 659 over the admissability of evidence into court

660 Soussurveillance is personal surveillance, for example by way of a camera worn by a person.  
661 Inverse surveillance is a subset of soursurveillance and is surveillance of surveillance, usually

662 surveillance of the surveillance activities or technologies of an authority. Soussurveillance  
663 or other small-scale surveillance systems could record to encrypted databases which are  
664 decryptable using only crypto-trust systems. For example, courts could be limited from  
665 permitting surveillance recordings to be admitted as evidence unless they have been de-  
666 crypted by a majority of people in a crypto-trust system.

## 667 **4.4 Credit**

668 Smart contracts, similar to the form seen in Ether, implemented in the crypto-trust system  
669 could be used to implement forms of mutual credit bank, an interest-free loan system with  
670 credit provided voluntarily by users of the crypto-trust system.

## 671 **4.5 Similar, good ideas that may not be implementable** 672 **using the proposed system**

673 While private decentralized organisations of humans and private decentralized contracts  
674 systems have been implemented to some degrees, this may be beyond the capabilities of the  
675 system proposed here. For privacy, say in purchasing delicious 1P-LSD, systems like Zcash  
676 and Monero have more developed methods of privacy than Bitcoin.

## 677 **4.6 Fair use of resources intended for people as opposed** 678 **to bots**

679 There is a contemporary problem with dark net markets running on Tor in the form of an  
680 ongoing distributed denial-of-service attack A network of social trust could identify the user  
681 of a resource as an authentic person, while maintaining anonymity, such that the resources  
682 are provided with priority given to people.

## Chapter 5

# Dangers

### 5.1 Borders

Everyone has the UDHR Article 13(2) right to leave any country and the complimentary right to free migration. In *Utopia for Realists*, Rutger Bregman argues that country borders (which have been enforced largely only since WWI, when border enforcement was introduced as a war-time emergency measure) are the greatest form of unfair discrimination today. For the case of the European migrant crisis of 2015, a protection against the tyranny of the majority that was the opposition to and oppression of migrants, another protection is open borders.

### 5.2 Tyranny of the majority

The framers of the United States Constitution did not envisage direct democracy because they saw a danger in the tyranny of the majority. A direct democracy, monetary policy, unconditional universal income guarantee and so on implemented using a crypto-trust system must have protections against tyranny of the majority. One protection for this is a population educated on oppression such that it is less likely to oppress. Another protection is representatives that are subject to the scrutiny of anarchy.



## 700 5.3 Transparency

701 Ivan Krastev said in his talk *Can democracy exist without trust?* [45] that there are un-  
702 intended consequences associated with transparency in government systems that feature  
703 humans, that transparency can be used as a way to silence humans in government. While  
704 the proposed system should plausibly not intrude on this (particularly given such economic  
705 privacy techniques as Zcash), it might have some unintended consequences relating to this.

## 706 5.4 Unintended consequences

707 Copyright was defined originally in the USA in the context of improving society; it was  
708 categorically not a recognition of some form of right to censor ideas. It was designed to  
709 mitigate the bad effects of individuals and groups keeping innovative ideas secret. While  
710 perhaps this was laudable, the system has become subject to mass manipulation enabled by  
711 monetary power and technologies such as *Content ID* [46].

712 An unconditional universal income guarantee is direct and promising but potentially as  
713 complex in implementation as the current social welfare systems. A naïve approach would  
714 set an income amount in stone at the lowest levels of income and would have the consequence  
715 of perpetuating poverty; the dynamic approach of changing the amount to match the median  
716 income is more promising. However, any of the ideas of this proposal could have many  
717 unintended consequences. They should be modified or supplanted as is reasonable.

718 The curse of poverty has no justification in our age. It is socially as  
cruel and blind as the practice of cannibalism at the dawn of  
civilization, when men ate each other because they had not yet  
learned to take food from the soil or to consume the abundant  
animal life around them. The time has come for us to civilize  
ourselves by the total, direct and immediate abolition of poverty.

---

Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [12]

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