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# Universal Kindness

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

4

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5

**DRAFT**

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## 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

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

53 This document presents some ideas that are in pursuit of a society that values fairness  
54 and caring, intrinsically involving care of non-human nature, perhaps via some methods of  
55 communalist anarchy, and that has at its core the ideas that monetary policy should not be  
56 under the sole control of the wealthy, and that no one should have to work just to survive  
57 and to have their fundamental rights protected.

58 Described in this document is a tool of social coordination to direct progress towards such  
59 a society: a monetary policy controlled by dictatorship of a proletariat. Decentralized  
60 networks of social trust and decentralized networks of cryptocurrency could possibly be  
61 used to create this decentralized form of coordination, a prioritized function of which would  
62 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.

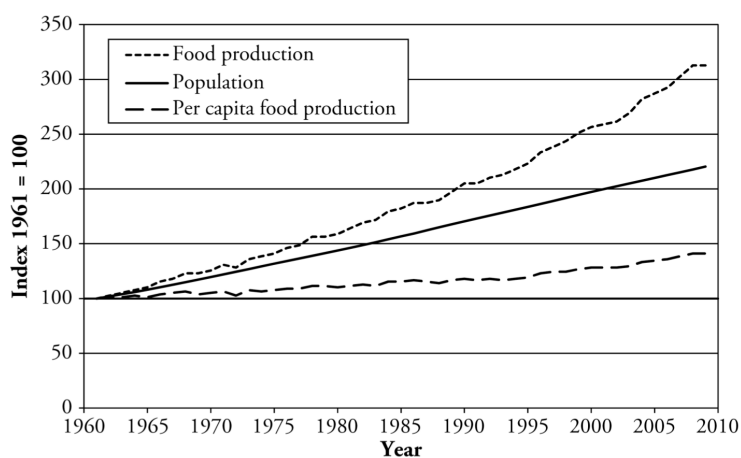


Figure 1.3: World food production from 1961 to 2009 [1]

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, is a right (which is a need a person gets to demand) that should not be coupled with ability or desire to commit effort or sacrifice. I have in mind here the benefit particularly for the most vulnerable in society.

If there are scarcities of resources needed for protection of fundamental needs (and that is a big “if”), 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



81 Ostriakov [3], who stole some food in an action that was ruled a necessity for life; “il diritto  
82 alla sopravvivenza prevale su quello di proprietà” [the right to survival prevails over that of  
83 property] [4], which was based on the Italian legal doctrine ‘Ad impossibilia nemo tenetur’  
84 [‘No one is held to do the impossible’].

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

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  
88 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.

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Philip Alston, 2018 [5]

89 If you are anarcho-curious (phrase stolen from Nathan Schneider), an introduction to the  
90 topic of socialist versions of anarchism is provided by the Philosophy Tube video *Intro to*  
91 *Anarchy: Power & Violence* [6]. A more full introduction to anarchism is offered by Noam  
92 Chomsky in *On Anarchism* [7]. One aspect of anarchic thinking is its power to show as  
93 unjustified the various forms of power, domination and hierarchy that exist in society, as  
94 Chomsky puts it, “exposing power to the sunlight and seeing it evaporate” [8]. An early  
95 comment on balanced anarchy yielded by computer networks was given by James Burke in  
96 the 1985 documentary series *The Day the Universe Changed* [9].

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*

97  
98 Strict self-sufficiency approaches like Mao’s backyard pig iron and Angka’s isolationism  
99 have proven to have a high likelihood of failure, and don’t conceptually work well in a  
100 world of diverse location-based resources. Scotland has wind; Sudan has sunlight. So  
101 a cautious implementation is suggested, perhaps a gradual one with voluntary groups of  
102 people choosing to coordinate, while also dealing strongly and carefully with the predatory  
103 forces of capitalism, corporatism and the like.

104 There is a tendency for human-created ideas to vastly prioritize human needs over the needs  
105 of other people and creatures and systems of life. I want to emphasize that the use in this  
106 document of words such as ‘person’ are to be extended beyond humans to others in nature,  
107 including those created by human designs. I want to emphasize also that a fairer society  
108 can be conceptualized only if there is a strong response to the climate emergency [10], and  
109 that the climate emergency has been caused to varying degrees by projects concerned with  
110 domination, profit, growth, structural violence, and general unconsidered unfairness in how  
111 humans treat other humans and life generally.

112 The book *Utopia for Realists* by Rutger Bregman makes the statistical, economic and his-  
113 torical case for open borders and implementation of a universal income guarantee. At a  
114 panel session in Davos 2019 (which was popularized by Bregman emphasizing the need for

115 vastly greater taxation on extreme wealth), Bregman links the socio-economic benefits of  
116 war-time, such as reducing wealth inequality, with the framing of responses to the climate  
117 emergency as “the moral equivalent of a war”. This is an inventive approach that should  
118 be investigated, because it offers the possibility of addressing the climate emergency in tan-  
119 dem with the possibility of improving social wellbeing [11]. The *Global Green New Deal*, as  
120 supported by Alexandria Ocasio-Cortez and others, might be used for this purpose [12].

121 Caveat: if the mere existence of a form of commodification of things very relevant to the  
122 social world, such as the system proposed herein, impedes progress towards a better world,  
123 perhaps by supporting surveillance capitalism in some way, or inducing something dystopian  
124 like the world seen in the Keiichi Matsuda short *HYPER-REALITY* [13], then this tool and  
125 others like it should be dismissed;

The examined life is actually not worth living.

---

126 Natalie Wynn [14]

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

136 *decentralized unconditional universal income guarantee*

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

## Chapter 2

# What: some terminology

### 2.1 Terminology

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

## 145 Chapter 3

# 146 Why and how

### 147 3.1 Imperial capitalism and the class system

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

152 There are many, many ways by which the capitalism system enables wealthy individuals  
153 and groups to gain political and legal and otherwise dominative and coercive power, some  
154 of which are lobbying, corruption, disinformation, manipulation and threats, and many of  
155 which involve the undermining of both thinking and wellbeing via stress and poverty. In  
156 societies that permit capitalism (or in those that do not sandbox it), there ends up being  
157 a working class – that is the people who work for someone else – and a capitalist class –  
158 who are the people who have people work for them – and a middle class, which is usually  
159 comprised of working class people who live comfortably with noticeable social privileges  
160 relative to working class people, and those who manage the working class for the capitalist  
161 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*

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

166 In almost all countries, income and wealth inequalities have increased vastly, partially de-  
167 fended and concealed from traditional legal systems and economics by wealth stashed in tax  
168 havens. We have changed from a post-war time of liberalized financial markets to one of  
169 rentier capitalism, wherein more and more wealth and income is siphoned by owners of fi-  
170 nancial, tangible and intellectual property, leaving even wage labor incomes to stagnate and  
171 reduce. Governments, often under the financial control of the wealthy, have increased subsi-  
172 dies and tax cuts for the wealthy while reducing the welfare states and making such things  
173 as welfare payments difficult to obtain, often to a deadly extent. Even more alarmingly, we

174 see capitalist growth destroying the environment.

## 175 3.2 Artificial scarcity, technologies of decentralization 176 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  
177 now widely discussed measure: the guaranteed income

---

Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [15]

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

180 While development of ideas like it took place over many years, the original *Bitcoin* paper [16]  
181 was then released on 31 October 2008, in possible response to this bailout, with the coinbase  
182 field of the genesis block stating “The Times 03/Jan/2009 Chancellor on brink of second  
183 bailout for banks.” [17]. While the bailout act of 2008 was followed up by the *Dodd–Frank*  
184 *Wall Street Reform and Consumer Protection Act* in 2010 to reduce fraudulent and risky  
185 behavior, Bitcoin has continued to grow and has resulted in the development of a vast  
186 collection of other cryptocurrencies.

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

198 as country-level sanctions and the forced sale of work for unfair rates. We see explorations  
 199 of blockchain social networking with Memo [18]. We see the Bitcoin blockchain used as a  
 200 notary with Satoshi Proof [19], whereby data can be reliably timestamped. We saw M-Pesa  
 201 change from a measure of phone air-time to being a proxy used for money transfer. With  
 202 government viewed as being substantially a form of technology, many other decentralized  
 203 systems hint at other ways of forming and operating a decentralized government. One is the  
 204 gradual migration of people away from brand loyalty to ratings loyalty. One is the usage of  
 205 VPN servers in various countries. As seen in the VPN server loads per country shown in  
 206 Figure 3.1 and Table 3.2, perhaps certain inferences could be made about the popularities  
 207 of various countries in terms of their privacy, legal or government climates.

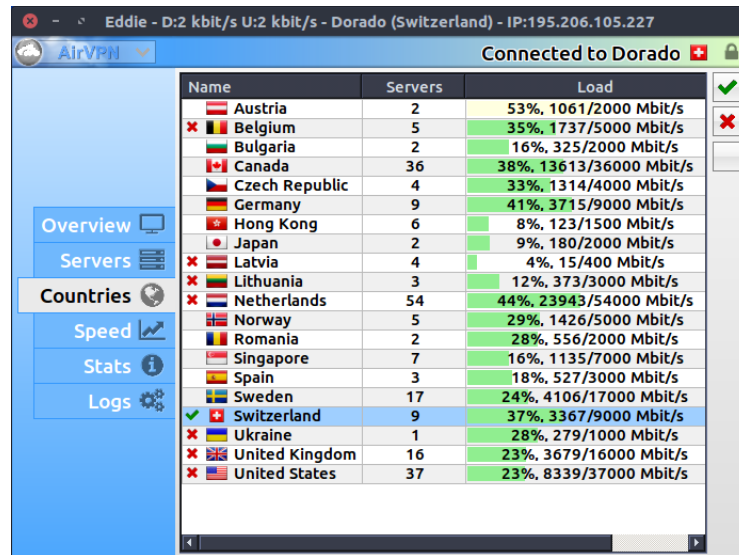


Figure 3.1: Load on VPNs of various countries in April 2019



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

208 Another measurement of possible interest is the degree of punishment vetted out by states  
209 for various transgressions. The sheer weight of penal danger, and advertisement of such  
210 punishments, to those like Chelsea Manning and Julian Assange who exposed information  
211 on illegitimate power is perhaps someday guiding.

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

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

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

220 One way to ensure these UDHR Article 25 rights is through a decentralized mechanism  
221 of protection offered by a *decentralized unconditional universal income guarantee*. The de-  
222 centralization aspect is critical because it ensures the global and universal nature of the  
223 protection, distancing it from implementation by an authority (which could change or re-  
224 scind it, as has happened for other welfare measures in semi-welfare states like the UK) and  
225 because it helps to reduce all borders (helping to progress to a point where no one is forced  
226 to sell their work 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.  
227 They stagnate or become even poorer in relation to the larger  
society.

---

Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [15]

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

229 It is here suggested that an unconditional universal income guarantee is a possible way to  
230 undermine the inherent features of the capitalist system of oppression, domination, coercion  
231 and artificial scarcity, and it is also suggested that even if an effort to undermine those

232 systems were not successful, so making the artificial scarcity an intractable problem, that  
233 the unconditional universal income guarantee could be a plug-in economic mechanism that  
234 acts as a constant mitigation to the capitalist system (and other oppressive systems). As  
235 MLK put it, “*We have come to the point where we must make the nonproducer a consumer*  
236 *or we will find ourselves drowning in a sea of consumer goods.*” [15]. The Marx/Engels  
237 concept of *withering away of the state* is used to suggest that realization of the ideals of  
238 socialism using the social institutions of a state makes the realized socialism self-sustaining  
239 without the need for the state. In a complimentary way, though in the same spirit, the  
240 unconditional universal income guarantee could be a method of withering those mechanisms  
241 of oppression, both private and state, that impede both greater protection of known rights  
242 and the exploration that is in pursuit of unknown rights. Use of a decentralized income  
243 could be a *Propagande par le fait* [*propaganda by the deed*], a political action which is an  
244 example to others and serves as a catalyst for revolution. The idea is both to inspire a spirit  
245 of revolt by demonstrating that the authorities are not omnipotent, and to offer hope to the  
246 downtrodden. It is an approach that was approved in 1881 at the *International Anarchist*  
247 *Congress of London* [20].

248 It has been suggested that a guaranteed income is possibly best seen as a reform to the  
249 existing monetary distribution systems and as something that exists in a free market econ-  
250 omy. It could modestly reduce economic inequality in a number of ways, the least of which  
251 is likely to be because a flat-rate regular payment represents a larger share of the income  
252 of a poor person than it would for a wealthy person. It could reduce economic insecurity  
253 and chronic economic uncertainty by strengthening social insurance against flexible labor  
254 markets (the gig or “zero-hours”-contracts economies) and technological disruption, partic-  
255 ularly the continued rise of intelligent automation [21]. It, particularly as a decentralized,  
256 borderless system, could mitigate the global pandemic of stress and depression. Indeed the  
257 evidence suggests that even the guarantee aspect, rather than the exact size, of the income  
258 reduces the intensity and prevalence of stress, with that in itself giving people more control.  
259 Both the Ontario 2017 and Finland 2017 basic income studies (both of which were ended  
260 prematurely) suggested a sharp decline in domestic violence and depression. A guaranteed  
261 income would also mitigate the disgusting “targeting” approach for welfare payments in-  
262 flicted on poor people by governments through means-testing and behavior testing, often

263 implemented by for-profit private companies with a deadly conflict of interest. So in some  
264 senses an unconditional universal income guarantee is protection of the right to economic  
265 security. It also slightly disincentivizes high-profit, low-effort activities. So, for example, a  
266 medic is recognized as more valuable to society than someone siphoning wealth off a hedge  
267 fund set up by their parent.

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

270 Global warming, climate change, pollution, and falling life expectancy rates all can be  
271 collected under one term: extinction. As was seen with *Mouvement des gilets jaunes* in  
272 France, unfair distributions of taxation are unpopular because the poor are made to pay  
273 proportionately more of their income than the wealthy. Steps in the right direction are seen  
274 in Canada and Switzerland, where high fuel and other eco-taxes are imposed with proceeds  
275 returned to the people in the form of “carbon” or common dividends. A cross-party group in  
276 the USA has advocated a similar approach with the support of 27 Nobel Prize economists.  
277 Basic income studies have shown that those that receive it tend to do more useful work that  
278 is ecologically and socially desirable, as opposed to resource-depleting labor (as Bregman  
279 calls it “bullshit jobs” – an example sometimes cited is that poor person selling plastic phone  
280 covers in markets).

281 The 2019 paper *Basic Income for All: From Desirability to Feasibility* [22] suggests that, in  
282 the UK, a *basic* income would:

- 283 • pay a significant, no-questions-asked amount of 10,400 GBP per year to a family of  
284 four,
- 285 • cut child poverty by more than a third and pensioner poverty by almost a third,
- 286 • narrow the inequality gap,
- 287 • lead to gains for three quarters of all households, with the largest gains among the  
288 poorest households,
- 289 • strengthen the universal element of the benefits system and reduce dependency on  
290 means testing and

291       • would take the UK back to the level of social security spending of 2010, but with much  
292       more progressive and universal outcomes.

293   The paper considers a few options for the introduction of a universal income guarantee,  
294   seeking to address particularly the usual criticism: that the income amount is either too  
295   small to make much of a difference or too generous to afford. I wish to emphasize that  
296   the exact amount of the income, which is distinct from other forms of social aid, such as  
297   disability support, *must* change such that it provides enough for fundamental needs. The  
298   10,400 GBP number is merely a guide number that is suggested by a paper considered in  
299   the context of the current political climate.

300   The 2019 paper *A Larger Us* [23] suggests three transitions that are needed for happier,  
301   healthier, more resilient democracies:

- 302       • from fight-or-flight to self-awareness,
- 303       • from powerlessness to agency, and
- 304       • from disconnection to belonging.

305   I feel it is possible that the guaranteed income system proposed here could assist with the  
306   second and possibly the third transitions.

307   The Stockton Economic Empowerment Demonstration (SEED) [24] is a city-led guaranteed  
308   income project which involves providing at least 100 people of Stockton with a guaranteed  
309   income of 500 USD for 18 months using prepaid debit cards. It plans to make a number  
310   of measurements, such as changes in financial wellbeing, psychological distress and physical  
311   functioning. For the case of financial wellbeing, measurements of income volatility and  
312   unsecured debt will be made. In similar experiments, it has been observed that individuals  
313   tend to use surplus income to pay down debt. For the case of the health indicators of  
314   psychological distress and physical functioning, measurements are to be made using the  
315   SF-36 survey and the Kessler 10 scale and through qualitative interviews.

316   The paper *No Strings Attached: The Behavioral Effects of U.S. Unconditional Cash Transfer*  
317   *Programs* [25] summarizes the empirical evidence from three major U.S. guaranteed income  
318   experiments. In these experiments, educational achievement increased, health outcomes

319 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) [15]

321 As a decentralized plug-in, or *virus*, for existing political systems, an unconditional uni-  
322 versal income guarantee system might broadly be intended to move things towards equality  
323 of outcomes – for people, species and ecosystems generally (where equality of outcomes is  
324 here supposed to mean broadly a fair distribution of satisfaction with life, including satisfac-  
325 tion with degree of autonomy and perhaps including equality of perception), and towards  
326 non-competitive behaviors. One candidate form of politics for pursuit of this is Murray  
327 Bookchin’s communalism. Shortcomings in the anarchic approach, however, concern tyranny  
328 of the majority; specifically, the author suspects that a more protective approach should be  
329 considered in order to ensure the needs of minorities instead of assuming that the anar-  
330 chy system perfectly undermines tyrannical, dominative and oppressive behaviors. Welfare  
331 should be a part of whatever system is implemented to attempt to ensure that there is a  
332 social safety net that ensures that rights such as those listed in the *Universal Declaration*  
333 *of Human Rights* cannot be denied. An example of tyranny under a purported anarchic  
334 system is the pogroms, banditry and sexual abuse in the Free Territory of Ukraine [26].

335 The feature of the proposed system of a network of social trust also has the possibility  
336 of not just protecting the UDHR Article 27(1) right to cultural participation, but could

337 also increasing the extent of that right by encouraging people to participate more fully in  
338 society. However, as the income is unconditional, universal and guaranteed, there should  
339 be protections for those that do not wish to participate in the cultural life of society or  
340 are excluded from society, such as has been the case of despised minorities, examples of  
341 which have been Jewish people, sexuality minorities and gender minorities. Fully addressing  
342 such social exclusion is beyond the scope of this document, but the decentralized system  
343 should feature some protections against it and the system itself should not feature social  
344 exclusion capabilities, the likes of which are seen in the *Black Mirror* 2014 Christmas special  
345 *White Christmas* [27].

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



Figure 3.3: Doyle's pub [28]

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

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



368

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*

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

372

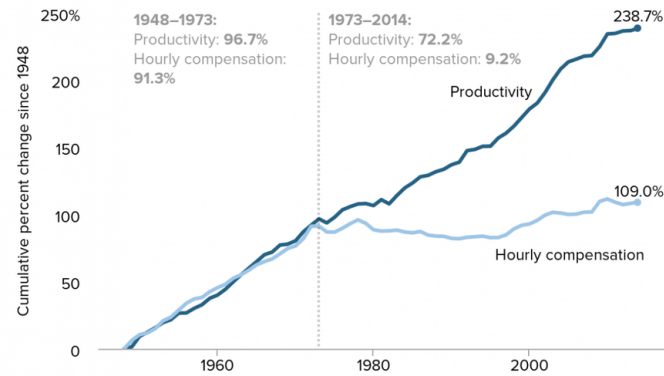
The opposite of government-imposed order is not chaos: there's a deeper order concealed within human society which relies not upon coercion but cooperation and trust, built not by governments or politicians, but by people who realize at last their own true power.

---

Carne Ross, *Accidental Anarchist* [29]

---

### 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

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

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

387 having a reliable income enabled people to have more free time to educate themselves so  
388 that they could advance to a new form of work, perhaps more enjoyable or meaningful, or  
389 to start businesses or generally to take more risks. Even the likes of Nixon and Rumsfeld  
390 were pretty much convinced by it [30]. *Utopia for Realists* by Rutger Bregman presents a  
391 referenced analysis of the idea as it has been implemented through history.

392 While climate emergency and denial of fundamental needs are powerful justifications for  
393 efforts on caring methods to undermine capitalism, there is another concern: Yuval Noah  
394 Harari emphasized the urgency of building decentralized information processing systems  
395 that are more efficient than fascist information processing systems in the 2018 TED talk  
396 *Why fascism is so tempting – and how your data could power it* [31].

We are witnessing the gradual disappearance of the postwar British  
welfare state behind a webpage and an algorithm. In its place, a  
397 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]

### 398 **3.3 Decentralized unconditional universal income guar-** 399 **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  
400 must exert myself in order to give in the same measure as I have  
received and am still receiving...

---

Einstein

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

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

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

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

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

425 An attempt has been Grantcoin, now called Manna [32]. Manna is administered by a  
426 US non-profit organization. While perhaps well-intentioned and inherently against borders  
427 (due to its use of a decentralized blockchain), Manna features a number of flaws, one of  
428 which is the organization acting as a gatekeeper, another being the organization acting as  
429 a centralized control over the monetary policy, and another being the possibility to invest  
430 in the currency. It intends to model itself on the Alaska Permanent Fund, which is a form  
431 of income paid to all Alaskans which arises from profits from a capital reserve fund. Its  
432 emphasis is more on altruism and charity than on rights. Fundamental rights shouldn't be  
433 subject to the whims of charity – that's why they're called rights. So, I view the emphasis of  
434 the Manna approach as fundamentally flawed. However, the opening of the Manna mission  
435 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* [33]

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 defense 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 [34], with a specific color of currency corresponding to a purported 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

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

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

### 460 3.3.2 Decentralized/distributed social trust graph as Sybil defense

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

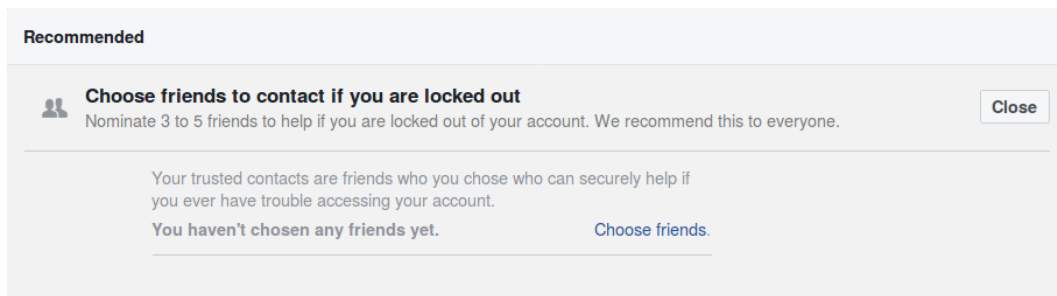


Figure 3.5: Facebook trust network

464 Graph-based Sybil defenses can use social network graph properties to distinguish Sybil  
465 users from legitimate users. Some assumptions in a Sybil defense strategy could be that the  
466 legitimate social network graph features fewer edges between user vertices than the Sybil  
467 social network graph and that a Sybil user cannot produce meaningful interactions in the  
468 legitimate social network graph, even if it may infiltrate it. Other strategies have been  
469 considered [35].

470 In this proposed social trust graph Sybil defense, in a sense, a social contract is being  
471 created wherein a user receives money unconditionally to engage with their community. It  
472 is hoped that the social trust graph will be secured fundamentally by a careful population  
473 and population scale ideas like “six degrees of separation” [36], with analyses and gatekeepers  
474 as supplementary protections. New users are given a currency that is worthless by default

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

477 The canton of Zug is a region of Switzerland that has a low tax rate and a startup culture.  
478 In 2017 Zug started to use uPort [37] for its Zug ID [38]. uPort is decentralized by storing  
479 identity data on IPFS and by using the Ethereum blockchain, but the Zug ID involves  
480 centralized gatekeeping by in-person verification by a city administrator. It was scheduled  
481 to be used to test non-binding voting in 2018. This Sybil defense could be used but only as  
482 a supplement to decentralized/distributed Sybil defenses. This is because such a centralized  
483 gatekeeper could make people beholden to it. Consider a bad, authoritarian government  
484 implementing income using a gatekeeper. It could wait until people are familiar with this  
485 form of income and dependent on it, and then could start making demands on people to  
486 comply with it in order to keep receiving the income. Defences against such authoritarian  
487 control must be present in the system. The idea of a basic income arises from rights, not  
488 from a gatekeeper, whether that gatekeeper be a government office or a charity.

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

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

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

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

### 507 3.3.3 Demurrage, inflation and deflation

508 Demurrage, or negative interest, is the cost associated with holding a store of value over  
509 a time [39]. For commodities such gold, demurrage is the cost of storing and securing it.  
510 For currency, it can take the form of a periodic tax, such as stamp tax, on currency hold-  
511 ings. The goal of demurrage currency is to ensure that cash is *cash flow safe*, wherein  
512 money is sure to return into the cash flow and this is accomplished not through inflation  
513 or deflation (though these are not excluded from the currency) but through periodic scrip  
514 payment to ensure that the money remains valid. The idea was suggested by Silvio Gesell,  
515 a German theoretical economist and anarchist libertarian socialist, as a way to undermine  
516 the privileged position held by currency compared with capital goods and to undermine  
517 entrenchment of the financial elite [40]. The concept has been tested in the Bavarian cur-  
518 rency *Chiemgauer* which requires an effective payment of 2 % of the value of a currency  
519 note every three months in order to maintain the validity of an individual bill in order to  
520 undermine hoarding and also has been tested in the short-lived local Schilling currency of  
521 the city of Wörgl, which appears to have protected the city from the economic depression  
522 in Germany of the 1930s [41, 42]. The Swiss WIR Frank (Wirtschaftsring-Genossenschaft  
523 [economic circle cooperative]) initially also featured ideas from Gesell [43]. A cryptocur-  
524 rency that implements a form of demurrage is Freicoin, though Freicoin has the demurrage  
525 fee paid to the developers as opposed to all other users [44]. The Freicoin documentation  
526 suggests that Freicoin is an implementation of Bitcoin which loses approximately 5 % of its  
527 value per year, with destroyed money taken out of circulation and minted coins created and  
528 distributed to miners, with the intention that the real capital required to secure the network  
529 is comparable to the payments of newly minted coins.

530 Keynes considered demurrage currencies and concluded that having currencies experience a  
531 reasonable rate of inflation is preferable, and has the same effect of promoting investment  
532 and spending [45].

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



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

### 537 **3.3.4 Existence in tandem with other currencies**

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

### 542 **3.3.5 Exchange rates**

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

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

### 561 **3.3.6 National credit**

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

### 566 **3.3.7 Revolution**

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

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

576 On a larger scale, the enticement of the ‘free’ currency accessible to people for a one-time  
577 small degree of effort (comprising solely of installation of a program) could be enough. To  
578 use the currency there is then the effort of building a few social connections/verifications.  
579 Outreach in order to educate about the system would be straightforward. Perhaps people  
580 like Ash Sarkar and Owen Jones could be helpful at popularization. The International  
581 Consortium of Investigative Journalists (ICIJ) – of Panama Papers fame – could be skilled  
582 at spotting shortcomings and strategies to counter the flows of secrecy used by the powerful.  
583 A contact for political association could be Michael Tubbs (SEED). Contacts for technical  
584 evaluation could be Stacia West (SEED) and Amy Castro Baker (SEED).

585 One noteworthy point raised in documentation on the Stockton Economic Empowerment  
586 Demonstration (SEED) [24] is that a declared income, such as a guaranteed income, could  
587 impact existing social welfare payments because these often are means-tested. Secrecy or at  
588 least legal waivers would be needed to address this system if the groups implementing the

589 system were not able to have the guaranteed income at a basic income level. Happily tech-  
590 nologies for financial privacy exist in the forms of Zcash and Monero and perhaps Ethereum  
591 and private social trust authentication is intended as a totally separate system which is  
592 merely used by the cryptocurrency system for authentication.

593 Cryptocurrencies tied to the value of traditional fiat currencies such as the Euro may be  
594 of assistance at the boundaries between the system proposed here and the existing capital-  
595 ist world, perhaps by providing a means of uneasily-censorable use of the traditional fiat  
596 currency. One suggestion is the stablecoin xEURO [46].

597 Publicly demolishing the arguments of the protectors of the wealthy could involve emphasis  
598 such as that used by MLK on consumerism: *“We must create full employment or we must*  
599 *create incomes. People must be made consumers by one method or the other”* [15]. I suggest,  
600 having seen video of people employed to cut grass using scissors in the Democratic People’s  
601 Republic of Korea and having heard reports from my parents of USSR Moscow toilet atten-  
602 dants (one employed to greet, one to open the cubicle door, one to hand the single pieces  
603 of toilet tissue and so on) that the latter must be the emphasis.

604 GEORGE:

605 You know, this used to be a hell of a good country. I can't understand what's gone wrong with  
606 it.

607 BILLY:

608 Man, everybody got chicken, that's what happened. Hey, we can't even get into a, like, a second-rate  
609 hotel. I mean, a second-rate motel, you dig? They think we're gonna cut their throat or somethin',  
610 man. They're scared, man.

611 GEORGE:

612 Oh they're not scared of you. They scared of what you represent to 'em.

613 BILLY:

614 Hey man, all we represent to them, man, is somebody who needs a haircut.

615 GEORGE:

616 Oh, no. What you represent to them is freedom.

617 BILLY:

618 What the hell's wrong with freedom, man? That's what it's all about.

619 GEORGE:

620 Oh yeah, that's right. That's what it's all about, alright. But talking about it and being it...  
621 that's two different things. I mean it's real hard to be free when you are bought and sold in  
622 the marketplace.

623 'Course, don't ever tell anybody that they're not free, 'cause they gonna get real busy killin'  
624 and maimin' to prove to you that they are. Oh yeah, they gonna talk to you and talk to you and  
625 talk to you about individual freedom -- but they see a free individual, it's gonna scare 'em.

626 BILLY:

627 Yeah well it don't make them runnin' scared.

628 GEORGE:

629 No. It makes 'em dangerous.

630

---

Conversation between alcoholic ACLU lawyer George Hanson,  
played by Jack Nicholson, and drug-running biker Billy, played by  
Dennis Hopper, in the film *Easy Rider* (1969)

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 oughta lift himself by his own bootstraps.

---

Martin Luther King, Jr.

### 3.4 Monetary policies with guaranteed income

A 2017 paper [47] emerged from the *New England Complex Systems Institute*, which was founded by theoretical physicist Yaneer Bar-Yam, who is known for having predicted aspects of the Arab Spring by using the observation that violence and riots occur at peaks of the global food price index. The paper describes a capitalist economic system featuring two main cycles that are balanced against one another, one for wages and consumption (the labor cycle), and one for investment and returns (the capital cycle), while treating the role of banks and government as providing monetary injections into those cycles.

The first cycle is that of workers receiving income and consuming goods and services. The second cycle is that of the wealthy investing in production and receiving returns on their investments. For growth to happen in this capitalist system, the two must be in a certain balance. If there is too much money in the worker cycle then there are not enough things to purchase. If there is too much money in the investment cycle then consumers don't have enough money to buy things so investment doesn't happen. The paper suggests that prior to 1980 there was too much money in the worker/consumer cycle, with money chasing too few products, giving rise to inflation. After 1980, the balance changed the other way, likely due to the Reganomics tax changes. There was too much money in the investor cycle and the result has been a series of recessions, perhaps mitigated by the likes of the Federal Reserve intervening by lowering interest rates in order to increase borrowing ability, in order to increase consumption – while income continued to be too low.

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

657 to the worker/consumer cycle.

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

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

668 The paper recommends a shift towards policies that inject money into the wages and con-  
669 sumption cycle in order to increase economic growth. The authors note that this is the  
670 same recommendation that would arise from considering the problem of income inequal-  
671 ity. So, the research supports advocates of greater income and/or government support for  
672 the poor, who use a larger fraction of income for consumption. Even within this capitalist  
673 thinking, the conclusion is that wages must be increased in order to create more investment  
674 opportunities for the wealthy, thus advancing to a stronger economy.

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

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

685 The system proposed here enables a rebalancing of these cycles by guaranteed income and

686 also enables members of the system to demonetize the investor class by reducing the weight-  
687 ing that is the exchange rate accepted for the currencies of members of the existing investor  
688 class.

## 689 Chapter 4

## 690 Other uses

### 691 4.1 Reparations, debt forgiveness and wealth redistri- 692 bution

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





Figure 4.1

700 Economic models acknowledge the relationship between labor income and wealth inequality,  
701 and also conclude that a redistributive tax (of the form of a Robin Hood tax) is successful  
702 at reducing income inequality [48].

703 At smaller scales than large, perhaps country-level, reparations and debt forgiveness, other  
704 debts and expenses could be mitigated. For example, in the time before landlords are  
705 abolished, the exchange rates of landlords could be defined by society to be of a worth that  
706 means that any rents they have received are immediately redistributed back to the renter.

## 707 4.2 Direct democracy

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

### **4.3 Surveillance and privacy, and proletariat control over the admissibility of evidence into court**

Soussurveillance is personal surveillance, for example by way of a camera worn by a person. Inverse surveillance is a subset of soursurveillance and is surveillance of surveillance, usually surveillance of the surveillance activities or technologies of an authority. Soussurveillance or other small-scale surveillance systems could record to encrypted databases which are decryptable using only crypto-trust systems. For example, courts could be limited from permitting surveillance recordings to be admitted as evidence unless they have been decrypted by a majority of people in a crypto-trust system.

### **4.4 Credit**

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

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

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

## 730 4.6 Fair use of resources intended for people as opposed 731 to bots

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

## 736 Chapter 5

# 737 Dangers

### 738 5.1 Borders

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

### 746 5.2 Tyranny of the majority

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

### 753 5.3 Transparency

754 Ivan Krastev said in his talk *Can democracy exist without trust?* [49] that there are un-  
755 intended consequences associated with transparency in government systems that feature  
756 humans, that transparency can be used as a way to silence humans in government. While  
757 the proposed system should plausibly not intrude on this (particularly given such economic  
758 privacy techniques as Zcash), it might have some unintended consequences relating to this.

### 759 5.4 Privacy

760 As mentioned in reference to the Stockton Economic Empowerment Demonstration (SEED)  
761 and things like rights to drugs currently called illegal, personal privacy – that’s privacy as  
762 recognized by the likes of the UDHR Article 12 – can be extremely important. Possible  
763 supported decentralized systems could be used to demonetize despised minorities, such as  
764 LGBT+ people or refugees, or individuals, so it is important to emphasize again that the  
765 social trust authentication system is intended as a totally separate system which is merely  
766 used by the cryptocurrency system for authentication. Technologies exist for decentralized  
767 financial openness, such as Bitcoin, but, as mentioned, it should be emphasized that tech-  
768 nologies exist for financial privacy in the forms of Zcash and Monero and perhaps Ethereum,  
769 while at the same time enabling decentralized monetary policy, including such ideas as con-  
770 tinuous guaranteed median income and regular wealth redistribution of such a form that  
771 makes a positive contribution to reality. And, of course, there can be continued development  
772 of research into unjust wealth and income secrecy, as we have seen with the Panama Papers  
773 ongoing research by the International Consortium of Investigative Journalists (ICIJ).

### 774 5.5 Unintended consequences

775 Copyright was defined originally in the USA in the context of improving society; it was  
776 categorically not a recognition of some form of right to censor ideas. It was designed to  
777 mitigate the bad effects of individuals and groups keeping innovative ideas secret. While

778 perhaps this was laudable, the system has become subject to mass manipulation enabled by  
779 monetary power and technologies such as *Content ID* [50].

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

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.

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Martin Luther King, Jr.,

*Where Do We Go from Here: Chaos or Community* (1967) [15]

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