

# *How 'demos' met 'cracy'<sup>1</sup>: debt, inequality, money*

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# How ‘demos’ met ‘cracy’<sup>1</sup>: debt, inequality, money

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## Abstract

The recurrence of ever more destructive economic crises and patterns of pervasive indebtedness and inequality threaten the social fabric of our societies. Our main responses to these trends have been partial, focusing on symptoms rather than causes, often exacerbating rather than improving the underlying socio-economic dynamics. To reflect on these conditions and on ‘what needs to be done’ this paper turns to a similar socio-economic malaise faced by the city-state of Athens in the 6<sup>th</sup> century BC. Most historical studies dealing with this crisis focus on the comprehensive debt relief policy (seisachtheia) implemented by Solon. We argue that this debt relief, although necessary, was the least important of Solon’s reforms. Solon read the problem of debt as a problem of money so he went on to reform the monetary and exchange system. But he did not think that these reforms alone could restore socioeconomic sustainability. For this, a redefinition of what was counted as valuable economic activity and as income had also to take place. And for all these to work, citizens had to be involved more in the commons. Far from only achieving socioeconomic sustainability, these reforms gave rise gradually to the demos that we meet in the golden age of Democracy. It is indeed interesting that Democracy, in its ideal type of the 5<sup>th</sup> century BC, finds its origin in the way in which a society responded to a major socioeconomic crisis, characterised by pervasive indebtedness and destabilising inequalities. Such a broader historical horizon may help us grasp better the problems, stakes and challenges of our times.

**Keywords:** *Debt, debt crisis, debt relief, seisachtheia, inequality, money, Solon*

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## Introduction

Income and wealth inequalities, alarming environmental degradation and seemingly uncontrollable debt dynamics put our global socioeconomic system under strain. The challenges ahead of us are not easy to exaggerate. Can our economies keep growing as they have done up to now? Is it possible to face destabilising socio-economic inequalities and achieve socioeconomic sustainability without growth? What do we ‘count’ as economic growth and income, and why? The answers to these questions are not predetermined. Different ways of thinking and different responses to these challenges will trigger different transformation dynamics and generate different outcomes. The greatest challenge of all then may be to decide where we want to go from here: what characteristics of our societies we want to maintain and what aspects we want to change.

A number of proposals on what needs to be done today have been put forward. For instance, several authors have suggested the need for direct debt write-offs<sup>2</sup> and/or the use of ‘helicopter money’<sup>3</sup>. Other ideas include the implementation of a universal basic income or universal job guarantee scheme, a redefinition of the policy of inflation targeting, or a change in the GDP/growth measurement in a way that better reflects social values and environmental impact. This paper aspires to offer a historical perspective on how such proposals may relate to each other in periods of profound social crisis. To do this we go back in time to see how a different society, in a different epoch, which faced a similar socioeconomic malaise to ours, dealt with its predicament. This is not an exercise in drawing lessons from history; but opening up the horizon of our current predicament might help us to understand where we stand today and how we can move forward.

## Economic crisis and the constitution of Athens

At the beginning of the 6<sup>th</sup> century BC, the city-state of (pre-democratic) Athens was undergoing a severe socio-economic and political crisis. Aristotle in the *Constitution of Athens*<sup>4</sup> notes:

[T]he upper classes and the people were divided by party-strife for a long period, for the form of government was in all respects oligarchical; indeed, the poor were in a state of bondage to the rich, both themselves, their wives, and their children... Now, the whole of the land was in the hands of a few, and if the cultivators did not pay their rents, they became subject to

bondage, both they and their children, and were bound to their creditors on the security of their persons...

In *Parallel Lives*<sup>5</sup>, Plutarch elaborates further on these two aspects<sup>6</sup>. First, there was an overly fragmented political scene with three main parties: one pro-democratic, one pro-oligarchic, and one which 'favoured an intermediate, mixed kind of system', and the presence of the latter made it difficult for either of the first two parties to gain power. The established political structure of interest representation was therefore at stalemate and seemed obsolete. Second, social inequalities were out of control and the cleavage between aristocratic landowners and poor farmers had reached explosive dimensions. The great majority of the population was in debt, and many lived 'on the starvation line'.<sup>7</sup> These developments were racking the social fabric and bred a violent social response. A long quotation from Plutarch is useful here:

[T]he disparity between rich and poor had...reached a peak. The city was in an extremely precarious state, and it looked as though the only way it could settle down and put an end to all the turmoil was by the establishment of a tyranny. All the common people were in debt to the wealthy members of society, because either they paid them a sixth of the produce they gained from working the land...or else they put up their own persons as collateral for their debts and were forfeit to their creditors, in which case they might become slaves right there in Attica or be sold into slavery abroad. The creditors were so ruthless that people were often forced to sell even their own children...or to go into exile.<sup>8</sup>

Some researchers speculate that the increase in debt and debt bondage in Athens was due to a fall in productivity (to put it in modern parlance).

To deal with pressures on local resources due growing population, in the late 8<sup>th</sup> and early 7<sup>th</sup> century BC, many Greek city-states sent segments of their population to newly created colonies. Athens had not done so. The growing population in Athens led to a more intensive cultivation of land, diminishing the fertility of the soil. Peasants who might not produce enough for the year, would borrow money from landowners by pledging parts of next year's harvest<sup>9</sup>. Yet, with falling productivity/fertility each year, more and more farmers failed to meet their debt obligations, entering into debt bondage relations with their creditors.<sup>10</sup>

A further reason that has been advanced for Athens' debt pathologies was a shift in 'monetary regime' (again in modern parlance), i.e. the 'transition from natural economy to money economy based on a metal currency'.<sup>11</sup> This exposed peasants to a different economic system, that followed different rules, was determined by different forces and generated different forms of fluctuation and speculation than those they, and earlier generations of peasants, were used to. It was not only a problem of comprehending and adjusting to a new monetary system. It was also, and perhaps most importantly, that in this new system power was moving away from peasants and their produce, towards money and finance. In the new money economy, peasants could not affect the conversion of farm produce to silver (needed to repay their debts), nor could they control the timing of debt repayment, i.e. the fact they had to sell their produce 'just after harvest, when grain was plentiful and cheap'.<sup>12</sup> In a rather exaggerated but suggestive statement, Milne notes: 'if the financiers chose to manipulate the exchanges, it is most probable that they would have had the farmers at their mercy'.<sup>13</sup> It can then be safely assumed that these changing rules of the game and shifting power relations had significantly contributed to the pattern of widespread indebtedness experienced in Athenian society.<sup>14</sup>

Another reason for Athens' economic malaise relates to significant shifts in the characteristics of international production and distribution networks. During the late 8<sup>th</sup> and early 7<sup>th</sup> century BC the main maritime trade power in Greece was Aegina. Athens' share in overseas trade was rather limited. Yet around this period a significant reorganisation of the Greek city-states' established import/export patterns took place, through the emergence of a new international trade triangle among Greece, Ionia and Egypt. Traditionally, Aegina would import corn from Athens. Yet, Aeginetans had started to import cheaper corn from Egypt in return for their silver, which was valued much higher in Egypt than in Athens. Once Aegina covered its domestic needs in corn, it started to export corn to Athens at prices much lower than those requested for Athenian corn. In this context, Aeginetans would 'bring over all the cargoes of corn that they could carry and flood the Greek markets with cheap corn', thus delivering an additional hit to Athenian corn producers.<sup>15</sup>

To deal with the destructive pattern of widespread indebtedness and debt bondage, break the political stalemate and avoid an all-out social war, Athenians agreed to invite Solon and asked him to find a solution for Athens' economic malaise. Solon was elected



as Archon in Athens in 594 BC,<sup>16</sup> in what must have been an unenviable position. The powers given to him were well short of those of a tyrant, and therefore the chances of successfully implementing any reforms were very thin, if any. Reinforcing the powers of the landowners would lead to social chaos. Going ahead with a radical redistribution of land would lead to war (and possibly to farmers' massacre). No matter which course he would take, anger from those whose demands went unmet would be directed against him. Plutarch notes that even moderate Athenians thought it would be hard for Solon to deliver his reforms only through 'reasoned argument and legal measures', so they 'did not dislike the idea of having a single person in charge'<sup>17</sup> – put differently, of Solon imposing a tyranny.

Solon not only vehemently opposed retreating to tyranny as the only way forward,<sup>18</sup> but also decided to follow a 'middle way' as a solution to Athens' ills, a decision criticised by all main political parties. His reforms 'annoyed the rich', but also 'the poor were even more aggrieved at his failure to redistribute land as they had expected, and because he had not completely removed the disparities and inequalities between men's lives and incomes, as Lycurgus had done [in Sparta]'.<sup>19</sup> Yet, Solon's reforms seem to have been based on a comprehensive understanding of how to address the sources of debt relations that pervaded and destroyed the social fabric of Athenian society, without reverting to a social revolution (in the form of radical land redistribution). First, he directly liberated people and the land from debt and debt bondages. Second, based on a rethinking of basic societal assumptions of what money is, what it does in the economy, and what counts as income, he implemented reforms related to money and income. Third, he enhanced the role and participation of the lower classes in the commons by creating new rights and socio-political institutions.<sup>20</sup> As Chambers puts it the ordering of Solon's reforms and priorities was 'cancellation of debts-metrological reforms-legislation'.<sup>21</sup>

Solon's first act in office was the *seisachtheia*,<sup>22</sup> which involved the cancellation of all debts, private and public, and the cancellation of all debt-related claims on land (mortgaged land).<sup>23</sup> The act also forbade the enslavement of Athenian citizens for debt (debt bondage) and foresaw the liberation of Athenians who were enslaved. In this way Solon was creating a new sense of community based on a notion of citizenship that was defined against debt enslavement. Grote describes the act of *seisachtheia* as follows<sup>24</sup>:

It cancelled at once all those contracts in which the debtor had borrowed on the security either of his person or of his land; it forbade all future loans or contracts in which the person of the debtor was pledged as security; it deprived the creditor in future of all power to imprison or enslave, or extort work from his debtor...It liberated and restored to their full rights all debtors actually in slavery under previous legal adjudication; and it even provided the means...of...bringing back to a renewed life of liberty in Attica, many insolvents who had been sold for exportation.

Yet, *seisachtheia* was only one pillar of Solon's economic reforms. Solon understood that the debt malaise that threatened the very existence of Athenian society was an expression of a deeper structural problem. Cancelling the debt without dealing with the sources of the debt problem, would just postpone the crisis – would kick the can down the road, to use an expression popular today. By freeing up people and land from debt claims, Solon gave to the majority of Athenian citizens the chance for a new beginning. But without dealing with the structural causes of debt creation, the debt malaise would re-emerge sooner than later. Solon not only had not outlawed debt, but deemed its existence, i.e. the capacity to borrow money, important for the economy and economic expansion (see below). So, to deal with the structural causes of indebtedness Solon's next reform focused on the monetary system and related measurements.

Milne notes in this regard<sup>25</sup>:

But it would have been of little use to do...[the *seisachtheia*] unless he had at the same time provided some safeguard against the recurrence of the trouble: this [i.e. farmer's insolvency] had been so widespread that it must have been due to some cause which operated throughout the industry, not to the shortcomings of individuals; and, as the step which Solon took was to reform the currency, it is clear that in his view it was the currency which had been at fault.

The key reference for this reform is found in Aristotle's *The Constitution of Athens*, where it is noted that Solon 'instituted the cancelling of debts, and afterwards the increase in measures and weights, as well as in the current coin'.<sup>26</sup> A similar phrase is found also in Plutarch who notes that Solon's *seisachtheia* 'also covered the upward rescaling of the weights and measures and of the value of the currency'.<sup>27</sup> There is no agreement

amongst scholars what these reforms in measures, weights and the value of currency meant exactly in practice.<sup>28</sup> The point is that Solon read the problem of debt as a problem of money, and the problem of money as both an economic and a political problem. His economic reforms in this context had a double purpose. In the short term, by reforming the weights and the value of the currency he aimed to support indebted citizens, which 'benefited the debtors a great deal'.<sup>29</sup>

But most importantly Solon must have thought that a solution to the Athenian debt malaise was not possible without a reshaping of the dominant monetary system of his time. For most of the 7<sup>th</sup> century BC the main 'international currency' in Greece, i.e. the currency that was used in the settlement of weights, measures and trade between Greek city-states, was issued in Aegina (based on a standardisation of weights and measures achieved around 670 BC by Pheidon the ruler of Argos), and its value was determined by the price of silver bullion in Aegina's metal market. Aegina controlled also the then main silver-mines in Greece, e.g. in Siphnos.<sup>30</sup> The fact that Athens did not have much control over weights, measures and currency valuations was one further factor negatively affecting the transition from a 'natural' to a money economy in Athens. Solon's reforms gave rise to a new coinage that managed to replace the dominance of the Aeginetan coins, first in Attica, then in the trade among Greek city-states, and finally in Greek trade overseas. The final solution to the problem of access to silver, on which Solon's monetary reform was based, was given with the discovery of silver-mines in Laurium,<sup>31</sup> that served Athens for most of its ancient and classical history (and beyond).<sup>32</sup>

Along with *seisachtheia* and the reform of the money system, the third pillar of Solon's reform was a reform of 'what counts as income'. Solon instituted a new division of Athenian citizens into classes. In the new system citizens no longer inherited their class membership, but the latter was determined by their wealth. Although this reform did not satisfy the poorer classes that demanded full political representation and the right to be elected, the implications of this reform were far-reaching. Till that point only the members of a hereditary aristocracy, i.e. the members of the highest class of 'eupatridai', could be elected in significant political positions. Solon's reform replaced 'birth with wealth'<sup>33</sup> as the qualification for social class and political office, thus making social mobility between classes possible.<sup>34</sup> But for the purposes of this paper, another aspect of this reform is equally interesting. Traditionally, wealth that 'counted', i.e. was to be counted for the purposes of social class classification, came only from produce from land,

an exclusive privilege of land-owners. Respectively all weights and measures were set in terms of measuring dry and wet goods.<sup>35</sup> This system excluded all other classes, such as merchants, which generated wealth but in the form of money-income rather than land produce. Solon changed this by redefining what was to be counted as wealth. As Freeman notes<sup>36</sup>, researchers have argued that:

the use of annual produce from land as a medium of assessment in all four classes—was pre-Solonian, and that Solon’s work consisted in admitting as well a money-income of the same value, thus depriving landed property of its privilege, and opening the way to office for the merchant class.

Solon understood that reforming debt and money alone might not cure Athens’ pathologies. This required a rethinking and redefinition of wealth and income, i.e. what society values. New social values and practices had to be accompanied by new social valorisations that reflected and validated these new practices and social dynamics, if the social system was to be stabilised. And this is what Solon did.<sup>37</sup>

History proved Solon’s comprehensive response to Athens’ debt malaise right. Solon did not only treat the symptoms of Athenian malaise (excessive and widespread indebtedness) but managed to locate and deal with its causes too. Seen through a contemporary lens, Solon dealt with the problem of social destructive indebtedness as simultaneously a problem of debt overhang, citizenship, money, and income. Yet, from today’s perspective, the restoration of socio-economic sustainability in Athens seems to have been the least of what Solon achieved. Above all, Solon’s reforms not only arrested the dissolution of Athenian society but forged a new sense of citizenship and community. These reforms gave the flesh and bones to the *demos* rising in the golden age of *democracy* in Athens in the 5<sup>th</sup> century BC. The idea and practice of Democracy, in its ideal type of the 5<sup>th</sup> century BC, finds its origin in a society’s response to a major social crisis, defined by destabilising inequalities, pervasive poverty and indebtedness, and calls for the replacement of a discredited political establishment.

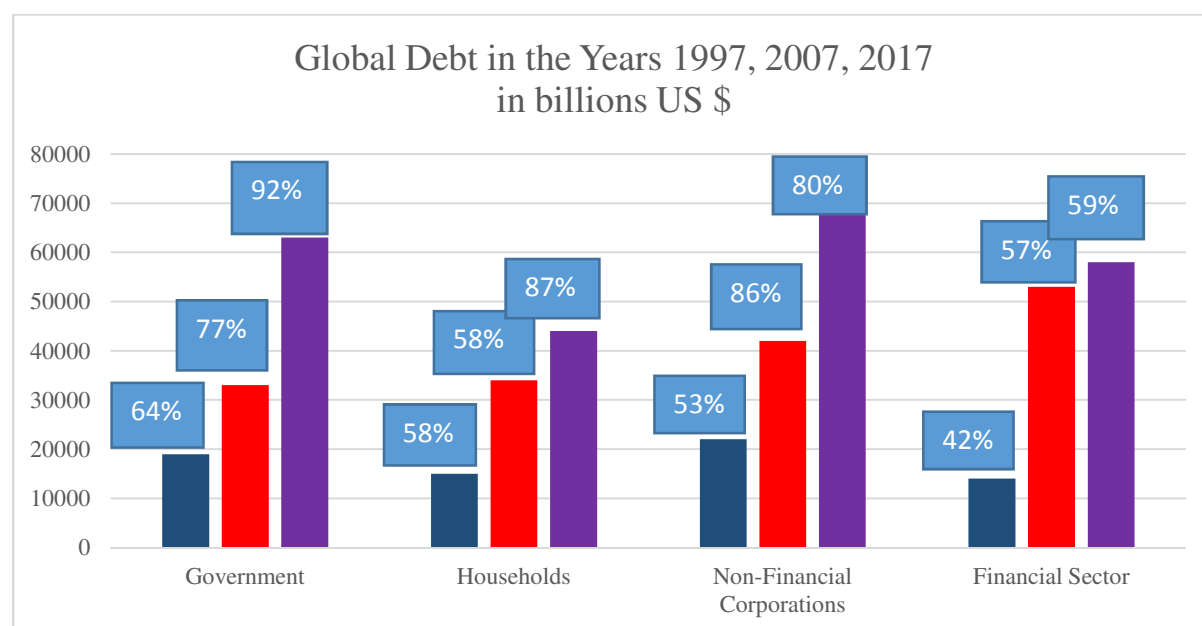
### **Parallel lives of debt pathologies?**

History does not hold the answer to our present problems but the similarities between the socioeconomic crisis described above and the one we are in today are intriguing. So too is the idea that a response to our socioeconomic crisis may, in time, not only solve

the current crisis but forge new social and political subjectivities that will breathe new life and meaning in modern democratic theory and practice. This section offers a brief examination of some similarities between the Athenian debt malaise and today's juncture and discusses what we can learn from Solon's response to the Athenian crisis.

All international organisations monitoring global debt today agree that it has reached historically unprecedented levels.<sup>38</sup> According to the Institute of International Finance (IIF) global debt increased from \$73.6 trillion in 1997 to \$166 trillion in 2007, and reached \$237 trillion in 2017.<sup>39</sup> Equally worrying is the fact that these debt dynamics are not driven by any single type of debt, or any single region. As evident in Figure 1 all types of debt, i.e. government, household, non-financial corporations (NFC), financial sector, have been significantly increasing over the last twenty years, especially so after the global economic crisis.

**FIGURE 1: Global Debt Dynamics**



Note: Boxes indicate per cent of global GDP per annum. Source: Authors based on data from IIF, 2018.

This rapid growth of global debt has been accompanied by a rapid growth in economic inequalities. The latter has been driven by a significant change in income distribution in favour of capital income and against labour income after the 1980s.<sup>40</sup> This change in income distribution was translated into rising household indebtedness. For instance, in 2016, the level of household debt as a percentage of disposable income was 111% in the US, 153% in the UK, 178% in Canada, 179% in South Korea and 221% in Australia.

Even in societies with lower levels of private indebtedness such as Italy and France, the household-debt-to-income ratio has increased from 38.5% and 66.4% respectively in 1995, to 88% and 109% in 2016.<sup>41</sup> The corresponding wealth inequalities are even more staggering. At a global level '[t]he bottom 50 percent of the global population has near-zero wealth and almost half of global wealth is held by the top 1 percent'.<sup>42</sup> The implications of these trends are pervasive and of course 'precariousness' is unequally distributed both across and within countries. It is indicative that in the UK, one of the 'richest countries', only 2% of households have deposit holdings in excess of £5,000.<sup>43</sup> Furthermore, individuals with debt aged 16 to 24 have the highest level of debt compared with their income, while half of adults in debt in the lowest net income quintile report debts of 83% or more of their annual income (Office for National Statistics, 2016). The ways in which these debt dynamics crash everyday livelihoods and monetise their future is hard to exaggerate.

The debt conundrum of our times is now widely recognised. The former governor of the Bank of England, Mervyn King, argues that: '[d]ebt has now reached a level where it is...likely to be the trigger for a future crisis'.<sup>44</sup> The former governor of the Reserve Bank of India and vice-chairman of the Bank for International Settlements, Raghuram Rajan, has referred to the long-term build-up of destabilising inequalities as a period in which the main mantra of the political establishment was 'let them eat credit'.<sup>45</sup> The former chairman of Britain's Financial Services Authority, Adair Turner, entitled his book *Between Debt and the Devil* (2016). The IMF has pointed to the negative impact of excessive inequalities on growth.<sup>46</sup>

Social theory has tried to capture and conceptualise these processes in different ways. For instance, as a new market civilisation,<sup>47</sup> a new social technology of governance and control,<sup>48</sup> or the new ordering divide of capitalism, which replaces the traditional capital-labour relationship.<sup>49</sup> Other researchers have referred to a new political economy of debt, a debt-based economy, a credit-driven or credit-intensive economy<sup>50</sup> privatised Keynesianism<sup>51</sup>, or the house of debt.<sup>52</sup> Regardless of the differences between these authors, they all agree that the current debt and inequality trends are unsustainable. Rising indebtedness, and income and wealth inequalities, rip the social fabric of our societies and the global economy in ways similar to that described by Aristotle and Plutarch above.

There is also some overlap on the discourses about the causes of the debt crises in ancient Athens and the current juncture. The fall in productivity in Athens concurs with current discussions on secular stagnation. The emergence of a new financial system, in which power is moving away from producers and their produce towards money and financiers, concurs with contemporary discussions on financialisation. Changes in Athens' production and distribution networks correspond to current trends of globalisation of production and global value chains. The contemporary value of ancient Athens' debt malaise, however, is to be found in the way in which Solon construed the crisis, as well as to the broader political implications of his response.

Solon did not think that the problem was with debt itself, i.e. that debt is harmful in economic life. On the contrary, according to some scholars, he thought that the existence of a money market and the capacity to raise capital for productive activities were necessary and useful aspects of an economic system. This was evident in the case of Athens which encouraged the production of olive-oil. The growth of olive trees to productive capacity takes time, so access to borrowing and capital was a key aspect of the Athenian economic system.<sup>53</sup> Neither apparently Solon thought that the problem was the profligacy by some or a period of excess by many that could be solved through increasing taxes and imposing austerity. Solon construed the debt malaise as a multilevel problem with different aspects and sources feeding each other. He understood that dealing with any single of these aspects without addressing the others would postpone but not solve the problem. Thus he read and responded to the debt malaise in a comprehensive way that aimed at addressing the different sources of the problem as well as the feedback loops between them.

Thus, to avoid a social collapse and/or outright revolt, Solon first took measures to relieve citizens from the burden of indebtedness. Then he moved on to tackle the structural sources of the problem of indebtedness by reforming the monetary and exchange system. But he did not stop there, possibly because he thought that without allowing for a better and fairer balancing of the economic system with the (changing) social values and activities, the return of social unrest, debt malaise or both could not be averted. Thus, he went ahead allowing the redefinition of what was counted as income, i.e. what forms of social and economic activities were valuable and contributed to the collective welfare, but due to privilege, tradition or both were not counted as income. But Solon did not stop at the definition of income either.

As mentioned above his reforms 'did not meet the approval of either party'.<sup>54</sup> Initially both the 'the rich' and 'the poor' were dissatisfied with his reforms because their demands had not been met. Furthermore, the general consensus in Athens at the time was that Solon's reforms would fail if he did not adopt a more autocratic style of governing. Against all advice and odds, Solon did the opposite. He gave more voice to the people and increased their role in the commons.<sup>55</sup> He must have believed that this was the only way for his reforms to survive and succeed – people had to become part of the political structure on which his reforms were based<sup>56</sup>. Thus his 'economic reforms' were invested and supported by 'innovations' in the city's political structure and mode of organisation, as the ultimate and maybe the most critical step for securing his reforms. All together, Solon's reforms had a completely unforeseeable outcome with far reaching implications for human civilisation, to put it in grandiose terms. They redefined and gave rise to a new political subject, the *demos*, a new political space, the commons, and most importantly a unique mode of symbiosis between these two that gave rise to Democracy, the ideal and the praxis that inspired and determined human history thereafter.

## **Conclusion**

The window for rethinking our socio-economic system and the ways we study it, opened by the global economic crisis, should be kept open. In this regard the debt crisis in 6<sup>th</sup> century BC Athens may convey three relevant messages. First, attempting to deal with different symptoms of our economic malaise without addressing its causes may postpone but cannot avert a systemic crisis. For instance, less than fifteen years after the debt relief given to heavily indebted poor countries (HIPC), the problem of their debt sustainability is back. Actuarial studies have pointed to the unsustainability of many pension schemes around the world for more than twenty years. Year after year there are adjustments in benefits and pension cuts aimed at improving the sustainability of these schemes only to be proven too little (sometimes too late) some years later. Similarly, no matter what austerity measures are imposed or how many public assets are sold, the sustainability of free public services, such as health, *seems* like a promethean task. These examples illustrate that the sustainability of our socio-economic system cannot be restored by dealing with symptoms rather than causes, and without addressing the question of *where we want to go from here*.

Second, although the different causes of our economic crisis may be analytically distinct, in practice they are interrelated and feed each other. For instance, dealing with the



supply-side of debt (e.g. banks and credit allocation) without addressing the demand side (e.g. economic inequalities, poverty, precarious employment) will not solve the problem. Similarly, offering debt alleviation or welfare support without reducing the dependency of our monetary system on interest-bearing money and redefining what we count as economic activity will fail to set our socioeconomic (and environmental) system on sustainable tracks. To use the Lernean Hydra metaphor from Greek mythology, just cutting one head off will not kill the beast, more heads will grow. Thus the emphasis should be on connecting the dots between the causes of economic malaise (from credit allocation, to inequality, to money creation, to what we count as GDP). None of Solon's measures was 'revolutionary' or 'radical' in its context (for which he was criticised), but the comprehensiveness of his reform package achieved more than many revolutions in recent history.

Third, significant socio-economic reforms cannot succeed without the participation of people affected by them. Renewing and enhancing citizen engagement with the commons may give rise to a new 'political contract' and lead to a democratic renewal of our *societas economicus*. This might be deemed wishful thinking if history did not teach us otherwise.

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- <sup>1</sup> The word ‘democracy’ comes from the Greek words ‘δῆμος’ (demos), which means ‘people’, and ‘κράτος’ (cracy), which means ‘power/strength’.
- <sup>2</sup> For instance, Mian and Sufi, *House of Debt*; King, *The End of Alchemy*; Turner, *Between Debt and the Devil: Money, Credit, and Fixing Global Finance*; Keen, *Can We Avoid Another Financial Crisis?*
- <sup>3</sup> For instance, Wolf, *The Shifts and the Shocks*; Turner, *Between Debt and the Devil: Money, Credit, and Fixing Global Finance*; King, *The End of Alchemy*; Bernanke, ‘What Tools Does the Fed Have Left?’; Buiter, ‘The Simple Analytics of Helicopter Money: Why It Works – Always’; Keen, *Can We Avoid Another Financial Crisis?*
- <sup>4</sup> Aristotle, *Constitution of Athens*, 1.
- <sup>5</sup> For the purposes of this volume we use the following shorter edition in English that includes Solon’s biography: Plutarch, *Greek Lives*. Oxford: Oxford University Press, 1998.
- <sup>6</sup> Plutarch, *Greek Lives*, 56.
- <sup>7</sup> See also Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 119.
- <sup>8</sup> Plutarch, *Greek Lives*, 56. For a discussion a discussion on the primitive law of debt and debt bondage in Athens see Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 67–73.
- <sup>9</sup> As Woodhouse (ibid. 119) notes ‘up to about Solon’s time, or a little before, we are dealing with institutions and usages arising out of a system of natural economy, under which a loan, and interest upon it, took the form of a certain quantity of some raw product’.
- <sup>10</sup> See the discussion in Sealey, *A History of the Greek City States, ca.700-338 B.C.*, 109; Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 132–35; Milne, ‘The Economic Policy of Solon’, 233.
- <sup>11</sup> Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 136.
- <sup>12</sup> Woodhouse, 120.
- <sup>13</sup> Milne, ‘The Monetary Reform of Solon’, 180.
- <sup>14</sup> See Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 136–39; Milne, ‘The Monetary Reform of Solon’; Milne, ‘The Economic Policy of Solon’.
- <sup>15</sup> Milne, ‘The Economic Policy of Solon’, 233.
- <sup>16</sup> Aristotle, *Constitution of Athens*, 10; Plutarch, *Greek Lives*, 57.
- <sup>17</sup> Plutarch, *Greek Lives*, 57.
- <sup>18</sup> A decision that according to Plutarch (ibid. 58) ‘earned him a great deal of scorn’ by his fellow citizens.
- <sup>19</sup> Plutarch, *Greek Lives*, 60.
- <sup>20</sup> Solon’s reforms touched upon every aspect of political and social life. Our aim here is not to cover all his reforms but to focus mainly on those related to the economy and are relevant to the theme of our volume.
- <sup>21</sup> Chambers, ‘Aristotle on Solon’s Reform of Coinage and Weights’, 2.
- <sup>22</sup> Seisachtheia (σεισάχθεια) is a composite word in Greek. It comes from the word ‘σειώ’ (shake) and ‘ἄχος’ (burden), so it means relief/alleviation of burdens. That’s why many authors have translated the term as ‘alleviation’.
- <sup>23</sup> In this sense, it can be argued that Solon’s reform did include a form of land redistribution for long as it returned land to peasants free of mortgage and debt claims. See Woodhouse, *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*, 135–36.
- <sup>24</sup> Grote, *A History of Greece*, 21.
- <sup>25</sup> Milne, ‘The Monetary Reform of Solon’, 179.
- <sup>26</sup> Aristotle, *Constitution of Athens*, 22.
- <sup>27</sup> Plutarch, *Greek Lives*, 59.

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- <sup>28</sup> For a discussion and relevant sources see Chambers, ‘Aristotle on Solon’s Reform of Coinage and Weights’. For a contrasting view see Milne, ‘The Monetary Reform of Solon’, 45.
- <sup>29</sup> Plutarch, *Greek Lives*, 59.
- <sup>30</sup> Milne, ‘The Economic Policy of Solon’, 235. See also Freeman, *The Work and Life of Solon*, 90–111.
- <sup>31</sup> Laurium is located in the southeast of Attica, approximately 60 km from Athens.
- <sup>32</sup> Milne, ‘The Economic Policy of Solon’, 241.
- <sup>33</sup> Sealey, *A History of the Greek City States, ca.700-338 B.C.*, 116.
- <sup>34</sup> Freeman, *The Work and Life of Solon*, 58. Solon made also a number of other reforms that increased the voice and power of lower classes in the Athenian commons; see *ibid.*
- <sup>35</sup> See Aristotle, *Constitution of Athens*, 14; Plutarch, *Greek Lives*, 61.
- <sup>36</sup> Freeman, *The Work and Life of Solon*, 58.
- <sup>37</sup> Not all researchers agree on whether this reform was implemented in Solon’s year. For a discussion see Freeman, 58–60.
- <sup>38</sup> For a recent review see Antoniadis and Griffith-Jones, ‘Global Debt Dynamics: The Elephant in the Room’.
- <sup>39</sup> Institute of International Finance, ‘Global Debt Monitor’.
- <sup>40</sup> Indicatively see IMF, ‘Fostering Inclusive Growth’; Stockhammer, ‘Rising Inequality as a Cause of the Present Crisis’; ILO, ‘World of Work Report’; Jacobson and Occhino, ‘Labor’s Declining Share of Income and Rising Inequality’.
- <sup>41</sup> See OECD, ‘Household Debt’. For a recent overview of trends see World Inequality Lab, ‘World Inequality Report’.
- <sup>42</sup> IMF, ‘Fostering Inclusive Growth’, 6.
- <sup>43</sup> Carney, ‘The Spectre of Monetarism’.
- <sup>44</sup> King, *The End of Alchemy*, 337.
- <sup>45</sup> Rajan, *Fault Lines*.
- <sup>46</sup> See for instance Ostry, Berg, and Tsangarides, ‘Redistribution, Inequality, and Growth’.
- <sup>47</sup> Gill, ‘Globalisation, Market Civilisation, and Disciplinary Neoliberalism’.
- <sup>48</sup> Lazzarato, *Governing by Debt*; Soederberg, *Debtfare States and the Poverty Industry*; Robbins and Muzio, *Debt as Power*.
- <sup>49</sup> Lazzarato, *Governing by Debt*.
- <sup>50</sup> Turner, *Between Debt and the Devil: Money, Credit, and Fixing Global Finance*.
- <sup>51</sup> Crouch, ‘Privatised Keynesianism’.
- <sup>52</sup> Mian and Sufi, *House of Debt*.
- <sup>53</sup> Milne, ‘The Economic Policy of Solon’, 237.
- <sup>54</sup> Plutarch, *Greek Lives*, 60.
- <sup>55</sup> For instance, with Solon’s reforms all citizens could act as jurors and had the right of appeal to the court of justice. For the critical impact of these seemingly unimportant reforms on Athenian democracy and accountability see Aristotle, *Constitution of Athens*, 18–19; Plutarch, *Greek Lives*, 62. Furthermore, Solon created a new political body, the Second Council, which included representatives from all social classes, in contrast to the other political bodies that were open only to the higher social classes; see Plutarch, 62–63; Freeman, *The Work and Life of Solon*.
- <sup>56</sup> With regard to the nineteenth century democratisation reforms in the West, see Acemoglu and Robinson, ‘Why Did the West Extend the Franchise?’.

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## Bibliography

Acemoglu, Daron, and James A. Robinson. 'Why Did the West Extend the Franchise? Democracy, Inequality, and Growth in Historical Perspective'. *The Quarterly Journal of Economics* 115, no. 4 (1 November 2000): 1167–99. <https://doi.org/10.1162/003355300555042>.

Antoniades, Andreas, and Stephany Griffith-Jones. 'Global Debt Dynamics: The Elephant in the Room'. *The World Economy*, forthcoming. DOI: 10.1111/twec.12623.

Aristotle. *Constitution of Athens*. Translated by Thomas J. Dymes. Online Library of Liberty, 1891. <http://oll.libertyfund.org/titles/aristotle-constitution-of-athens>.

Bernanke, Ben S. 'What Tools Does the Fed Have Left? Part 3: Helicopter Money'. *Brookings* (blog), 11 April 2016. <https://www.brookings.edu/blog/ben-bernanke/2016/04/11/what-tools-does-the-fed-have-left-part-3-helicopter-money/>.

Buiter, Willem. 'The Simple Analytics of Helicopter Money: Why It Works – Always'. *Economics: The Open-Access, Open-Assessment E-Journal* 8 (2014): 1–45.

Carney, Mark. 'The Spectre of Monetarism'. Speech given at Liverpool John Moores University, December 2015.

Chambers, Mortimer. 'Aristotle on Solon's Reform of Coinage and Weights'. *California Studies in Classical Antiquity* 6 (1973): 1–16. <https://doi.org/10.2307/25010645>.

Crouch, Colin. 'Privatised Keynesianism: An Unacknowledged Policy Regime'. *The British Journal of Politics & International Relations* 11, no. 3 (1 August 2009): 382–99. <https://doi.org/10.1111/j.1467-856X.2009.00377.x>.

Freeman, K. *The Work and Life of Solon*. University of Wales Press, 1926.

Gill, Stephen. 'Globalisation, Market Civilisation, and Disciplinary Neoliberalism'. *Millennium* 24, no. 3 (1 December 1995): 399–423. <https://doi.org/10.1177/03058298950240030801>.

Grote, George. *A History of Greece: From the Time of Solon to 403 BC*. Condensed and Edited by J.M. Mitchell and M.O.B. Caspari; new introduction by Paul Cartledge. London: Routledge, 2001.

---

ILO. 'World of Work Report'. Geneva: ILO, 2011 2008. <http://www.ilo.org/global/research/global-reports/world-of-work/lang-en/index.htm>.

IMF. 'Fostering Inclusive Growth'. Washington DC: IMF, 2017.

Institute of International Finance. 'Global Debt Monitor'. Washington, DC: Institute of International Finance, January 2018. <https://www.iif.com/publication/global-debt-monitor/global-debt-monitor-january-2018>.

Jacobson, Margaret, and Filippo Occhino. 'Labor's Declining Share of Income and Rising Inequality'. *Economic Commentary*, Federal Reserve Bank of Cleveland, no. Number 2012-13 (September 2012).

Keen, Steve. *Can We Avoid Another Financial Crisis?* Malden, MA: Polity Press, 2017.

King, Mervyn. *The End of Alchemy: Money, Banking, and the Future of the Global Economy*. New York ; London: W. W. Norton & Company, 2016.

Lazzarato, Maurizio. *Governing by Debt*. South Pasadena, CA: Semiotexte, 2015.

Mian, Atif, and Amir Sufi. *House of Debt: How They (and You) Caused the Great Recession, and How We Can Prevent It from Happening Again*. First Edition, Edition. Chicago ; London: University of Chicago Press, 2015.

Milne, J. G. 'The Economic Policy of Solon'. *Hesperia: The Journal of the American School of Classical Studies at Athens* 14, no. 3 (1945): 230-45. <https://doi.org/10.2307/146709>.

———. 'The Monetary Reform of Solon'. *The Journal of Hellenic Studies* 50 (1930): 179-85. <https://doi.org/10.2307/626809>.

OECD. 'Household Debt'. Paris: OECD, 2018. doi: 10.1787/f03b6469-en.

Ostry, Jonathan David, Andrew Berg, and Charalambos G Tsangarides. 'Redistribution, Inequality, and Growth'. Staff Discussion Notes No. 14/02. Washington DC: IMF, 2014. <https://www.imf.org/en/Publications/Staff-Discussion-Notes/Issues/2016/12/31/Redistribution-Inequality-and-Growth-41291>.

Plutarch. *Greek Lives*. Translated by Robin Waterfield; introduction and notes by Philip A. Stadter. Oxford: Oxford University Press, 1998.

Rajan, Raghuram G. *Fault Lines: How Hidden Fractures Still Threaten the World Economy*. Reprint edition. Princeton: Princeton University Press, 2010.

Robbins, Richard H., and Tim Di Muzio. *Debt as Power*. Reprint edition. Manchester: Manchester University Press, 2016.

Sealey, R. *A History of the Greek City States, ca.700-338 B.C.* U. of California P., 1976.

Soederberg, Susanne. *Debtfare States and the Poverty Industry: Money, Discipline and the Surplus Population*. 1 edition. London ; New York, NY: Routledge, 2014.

---

Stockhammer, Engelbert. 'Rising Inequality as a Cause of the Present Crisis'. *Cambridge Journal of Economics* 39, no. 3 (1 May 2015): 935–58. <https://doi.org/10.1093/cje/bet052>.

Turner, Adair. *Between Debt and the Devil: Money, Credit, and Fixing Global Finance*. Princeton University Press, 2016. <http://press.princeton.edu/titles/10546.html>.

Wolf, Martin. *The Shifts and the Shocks: What We've Learned – and Have Still to Learn – from the Financial Crisis*. Penguin, 2015.

Woodhouse, W. J. *Solon the Liberator: A Study of the Agrarian Problem in Attika in the Seventh Century*. London: Oxford University Press, 1938.

World Inequality Lab. 'World Inequality Report', 2018. <http://wir2018.wid.world/>.