

**The Colonisation of the Future:
An Alternative View of Financialisation and its Portents**

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Abstract

Financialisation is generally interpreted by heterodox economists to be a dysfunctional and thus historically transient outgrowth of contemporary capitalism: dysfunctional because it is seen to be driven by attempts to escape production and profit realisation constraints in the real economy, transient because these attempts are seen to be ultimately futile. This paper puts the contrary argument that financialisation is a functionally necessary and thus permanent condition of capitalism that is entirely in keeping with the latter's continuing development as a commodity system. To be specific, it will be argued that just as globalisation represents the extension of the commodity principle along the axis of geographical space financialisation represents the extension of this same principle along the axis of time: the future is being colonised so as to make it take the overspill of the pressures on organisations operating in the present.

Key words: financialisation; colonisation of the future

JEL classification: G10; H10

1. Introduction

Financialisation is now generally, if not universally, accepted by heterodox economists to be the neologism that best captures the fact that the financial markets now occupy a far more prominent position in domestic economies than has usually been the case¹. This consensus on semantics extends to the deeper issues regarding the content, cause and future prospects of financialisation. Starting from the premise that the observed changes in the financial markets can only be explained in terms of the growth of speculative trading and other self-serving financial activities, heterodox economists broadly agree that financialisation is a dysfunctional and thus historically transient outgrowth of contemporary capitalism:

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¹ Among the few who reject the term financialisation are Michell and Toporowski who argue that “the understanding of finance requires the abandonment of financialisation as a project of intellectual inquiry” (2013-14, p.80)

dysfunctional because it is seen to be driven by attempts to escape production and profit realisation constraints in the underlying real sector and transient because these attempts are seen to be ultimately futile.

This paper gives an alternative of view of financialisation and its portents by taking as its cue the observation that this phenomenon essentially represents the extension of the commodity principle along the axis of time in the same way that globalisation represents its extension along the axis of geographical space. Given that financial securities, the stuff of the financial markets, are nothing other than tradable claims on the future income streams generated by corporations and governments, it follows that the continual expansion of the supplies of these securities stocks on the one hand and the continual expansion in the demand for these stocks on the other can mean nothing other than the systematic occupation of the future, its annexation as an additional space of economic activity. The spatialisation of the future is certainly driven by constraints that exist in the GDP realm, but these constraints have less to do with those of production than with those of time: the future is being colonised so as to make it take the overspill of the pressures on the various organisations operating in the present.

The paper is structured as follows. Section two gives a brief overview of the heterodox position on financialisation. Section three gives an alternative view of the content of financialisation. Section four gives an alternative view of the cause of financialisation. Section five concludes.

2. An overview of the heterodox position on financialisation

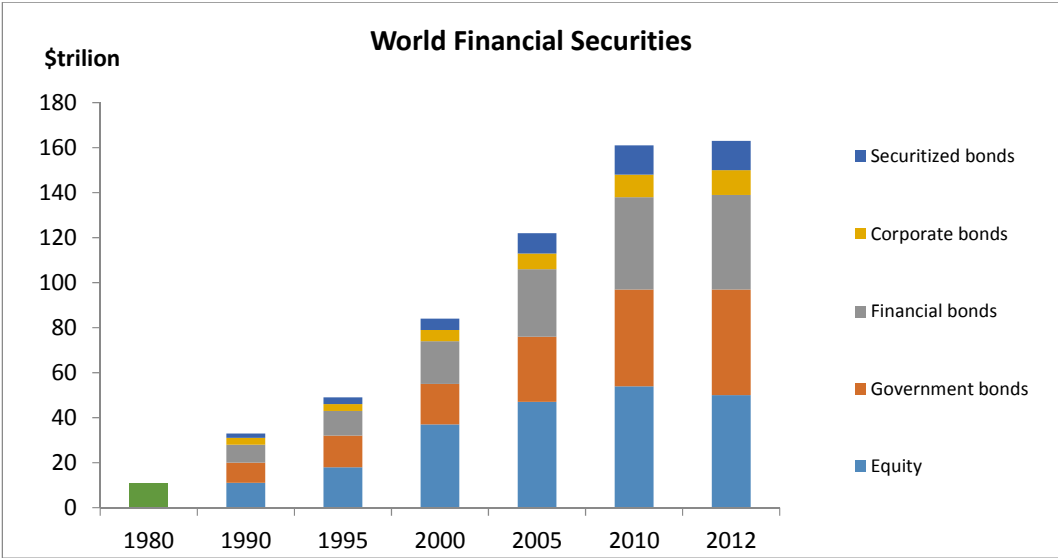
Although scholars drawn from a variety of disciplines now use the term financialisation to describe the structural shift from industrial to finance capitalism, the primary concern here is with its use in the economics discipline. For the heterodox wing of this discipline, the term “summarises a broad set of changes in the relation between the ‘financial’ and ‘real’ sector, which give greater weight to financial actors or motives” (Stockhammer, 2012, p. 121) ². Of the changes that have given ‘greater weight’ to finance the three that stand out and have

² There are several variations of this definition of financialisation, but the one that continues to be most frequently cited is that given by Epstein (2005, p.3): “financialization means the increasing role of financial motives, financial markets, financial actors and financial institutions in the operation of the domestic and international economies”.

received most attention are (i) *size of the financial sector*: from being approximately equal in size with world GDP in the early 1980s financial stocks have since then grown at a much faster rate such that they now completely dominate annual output flows (see figure 1); (ii) *status of the financial sector*: from playing a largely peripheral role in domestic economies, the financial markets have moved to a more central position as attested by their growing influence on the priorities of corporations and on the policy actions of governments and central banks; (iii) *character of the financial sector*: from being largely passive in character, the financial markets have become far more active as shown by the large increases in daily trading volumes in the capital, money and foreign exchange markets³.

Figure 1

Financial Deepening of the Global Economy



\$trillions

	1980	1990	1995	2000	2005	2010	2012
World Deposits	9	23	26	35	42	57	62
World GDP	11	22	30	33	46	64	72

Source: Mckinsey (2013), IMF (2013)

³ Fine (2011) and Sawyer (2013-14) suggest that there are eight features of financialisation but these are essentially variations of the three key features involving size, status and character of the financial sector.

Many of the heterodox discussions of financialisation go on to focus on its wider economic and social implications such as those for the rates of industrial investment and output growth (Stockhammer, 2004; Orhangazi, 2008; Hein, 2009; 2010; Hein and Treeck, 2010), the sectoral distribution of income (Epstein and Jayadev, 2005; Epstein, 2013) and the functional distribution of income and income inequality (Stockhammer, 2009, 2010, 2012; Dunhaupt, 2012). For the purposes of the present paper, we limit the discussion to the aforementioned changes in the size, status and character of the financial sector, concentrating attention on what heterodox economists have to say about the content of these changes and about what is driving them.

(i) Financialisation as role-reversal

The recent changes in the relation between the financial and real sectors have led some authors to assert that the former has in effect become “an increasingly autonomous realm” (Van der Zandt, 2014, p.99). This assertion cannot of course be valid if autonomy is interpreted in the sense of *separate existences*: as financial securities are nothing other than claims on the future income streams generated by corporations and governments, it follows that the financial markets cannot exist independently of the product markets⁴. By contrast, the assertion does have validity if autonomy is interpreted in the sense of *separate motives*: the huge scale of activities taking place in today’s financial markets indicate that the majority of these activities are motivated by self-enclosed interests rather than by any underlying real sector interests. However, while this latter interpretation of financial sector autonomy may be correct its significance can be viewed in two very different ways. One position, which is that to be developed later in this paper, is to view the increase in self-motivated financial market activity as a trend that is functionally necessary to the operation of the capitalist system in the modern era. The diametrically opposite position, which is taken by just about every other heterodox economist who has written on financialisation, is to view the emergence of an autonomously motivated financial realm as an historical aberration, a phenomenon that is not only parasitic on the continued development of the capitalist system but also one that threatens to undermine that development. As Vercelli has recently observed: “According to

⁴ Treeck (2009, p.909) puts the same argument but from a different perspective. As he states: “the observation that financial profits have increased relative to non-financial profits has led many authors to conclude that there has been some sort of ‘decoupling’ of the financial sphere of the economy from the real sphere”, but as he also goes on to state, this decoupling is not possible because from a formal macroeconomic perspective “aggregate profits ultimately rely on the production and trade of real goods and services and firms in the aggregate can by no means autonomously choose either between real investment (production) and profits at large or even between non-financial profits and financial profits”.

most streams of heterodox economics, the process of financialization is mainly a pathological process of evolution within capitalism that requires that capitalism be radically reformed or superseded” (2013-14, p.41)

The basic explanation for this latter position is that heterodox economists continue to hold to a fixed view as to what should be the proper role of the financial sector and as to the quantitative proportions that it needs to assume in order to carry out its role. As concerns finance’s role, the heterodox position essentially coincides with that of mainstream finance theory, namely, that it is “to facilitate the allocation and deployment of economic resources across time and space in an uncertain environment” (Merton and Brodie, 1995, p 4).⁵ Where mainstream and heterodox theorists diverge is over the appropriate scale that finance needs to acquire to be able to facilitate the allocation and deployment of economic resources. Where the former generally argue that the larger is the financial sector the more cost effectively can it carry out its functions in support of resource allocation⁶, the latter object to this argument on the grounds that while the financial sector has to reach a minimum scale to be able to operate effectively in this regard its current scale is far in excess of that minimum. The financial sector is now just “too big”. (Epstein and Crotty, 2013). “Overblown”, “bloated” and “inflated” are some of the more colourful adjectives, and “ballooning”, “booming” and “mushrooming” some of the more exotic verbal adjectives, used to characterise the financial sector’s growing size and weight relative to that of the real sector.

The bloated scale of the financial sector coupled with the fact, as already noted, that the latter cannot exist independently of the real sector is generally taken to indicate role-reversal: rather than finance serving the interests of production, it is production serving the interests of finance. Nowhere is this apparent excess of financial scale and role- reversal more pronounced than in the trading sphere. As already noted, trading volumes in all of the major financial markets have exploded over the past three decades at rates far above those for

⁵ According to Merton and Brodie, the financial system facilitates resource allocation by providing “(i) ways of clearing and settling payments to facilitate trades, (ii) a mechanism for pooling resources, (iii) a mechanism to transfer resources across time and across borders and amongst industries, (iv) a way of managing risk, (v) price information in decentralised decision making and (iv) a means of dealing with incentive problems that make financial contracts difficult and costly”. Heterodox economists accept that the financial sector has to carry out each of these particular functions but, as we say, disagree over the quantitative proportions that the sector needs to acquire in order to execute these functions efficiently. Epstein, for example, presented just such a critique in a recent conference presentation (Epstein, 2013).

⁶ While most mainstream financial theorists do not consider the continuing growth in size of the financial sector in a negative light, which is one reason why they do not typically use the term ‘financialisation’, a minority are beginning to question whether there are in fact limits to that size beyond which the financial sector becomes a ‘drag’ on economic growth and development (see e.g. Cecchetti and Kharroubi, 2012, or Beck, Degryse and Kneer, 2014).

material outputs or industrial investments. Some of this trading may be linked to real sector activities but the fact that such trading constitutes a vanishingly small fraction of total financial trading volumes coupled with the observation that the latter are overwhelmingly dominated by short horizon trades would appear to show that the key financial trading motive is speculation: trading solely in order to gain from trading. Mainstream theory generally takes a benign view of the unrestricted growth of financial speculation in that this is seen as something that usually adds to the liquidity and hence informational efficiency of the financial markets, outcomes which in turn can only add to the efficiency of production and resource allocation. However, the experience of recent decades, replete as they have been with price bubbles, currency crises and other severe financial disorders, all of which have had damaging repercussions on the real economy, has only served to confirm the negative opinion of speculative trading taken by heterodox theory. In this opinion, the growth of financial speculation has less to do with assisting the allocation of resources in the real sector for the benefit of society than with effecting the diversion of resources to the financial sector for the latter's own benefit.

(ii) Financialisation as the outcome of production constraints.

Just as financialisation tends to be identified with speculative trading and other self-motivated activities because the scale of these activities cannot be explained in terms of the needs of the production process, so does the root cause of financialisation tend to be located in the constraints on that process. Industrial profit is the key variable in this regard. Firms under capitalism generally produce in order to generate profit, an aim which in turn can only be fully realised if household wage incomes and hence money-backed demand for consumption goods are maintained at a certain commensurate level. On the contrary, if wage incomes and hence the aggregate level of effective demand lag behind aggregate profits, thus placing constraints on the proportion of profits that can be realised in the normal way in the course of the production-consumption cycle, then it must follow that firms will need to seek supplementary outlets through which profits can be realised, outlets that can only be provided by the financial sector. The recent evidence appears to corroborate this conclusion in that corporations appear to be able to continue to realise large profits even while profit levels have consistently outpaced wage levels on the one hand and levels of industrial investment on the other.

Heterodox theorists point to two major ways in which many of the large non-financial corporations have come to rely on the financial sector for profit generation and profit realisation purposes. One is through their diversification into financial service provision. Indeed, some industrial corporations now generate more revenues from their provision of various financial services and products than through their traditional lines of production (Krippner, 2005; Epstein, 2005; and Crotty, 2005). The other, more direct way, is through their provision of financial securities. Corporations have always been the chief providers of financial securities but what is different today is that the top corporate managers now appear to have joined the ranks of rentiers and speculators in being as active on the demand side of the securities markets as on the supply side (Lazonick, 2010; Seccareccia, 2013). The fact that the remuneration packages of most of these managers are now dominated by stock options, thus giving the latter a huge incentive to find ways of boosting share prices, is generally taken to be the main explanation as to why an increasing proportion of profits are being diverted away from industrial investment and used instead to finance dividend payments, which have a direct positive impact on share prices, or share buy backs, which indirectly impact on share prices by restricting the quantities of shares in circulation (Milberg, 2008; Baud and Durand, 2012; Lazonick, 2013). Finally, this same fact concerning equity-based managerial pay is also used to help explain why, in addition to un-invested profits, corporate managers are increasingly resorting to bond issuance as another means of raising cash to be returned to shareholders (Seccareccia, 2013).

In making the firm sector, through its attempts to escape the production constraints on profit realisation, the main driver of financialisation, heterodox economists do not by any means ignore the part played by the other major economic sectors. Rather, all of these are shown as playing a significant role in one way or other. Thus banks, also eager to maintain the profits made out of their links with the large corporations, are increasingly moving away from their traditional, interest charging corporate loan business towards fee-based sales of financial products and services (Seccareccia, 2013). Households are similarly important to the financialisation process because their need to increasingly rely on bank credit to make good the income shortfalls caused by stagnant wage growth has furnished the banks with much of the raw material necessary for creating increasing amounts of asset backed securities. Indeed, in some heterodox accounts of financialisation the rise in various forms of household debt – mortgage loans, credit card loans, car loans and so on - and the securitisation of this debt are seen as a major driver of financialisation (Palley, 2007; Lavoie, 2012). Finally, if banks are

the main conduit through which securitisation links in with financialisation, governments are the main conduit through which neoliberalism and globalisation link in with this same phenomenon. At the domestic level the acceptance by governments of the neo-liberal dogma that market efficiency is maximised when government intervention is minimised has helped spur the deregulation of financial markets thus enabling them to grow to proportions that were previously impossible (Kotz, 2010). Another, more direct boost to the growth of these markets has come from the rise in real interest rates that has accompanied the increasing prioritisation of inflation targeting in macroeconomic policy (Dumesnil and Levy, 2005). At the international level, the lifting of trade and capital controls has helped to promote the closer integrations of the world's product and financial markets, the former process contributing to financialisation by helping to keep average wage levels low thus enabling more profits to be diverted to the financial sector and the latter process contributing to financialisation by adding to the competitive pressures forcing corporations to distribute any increased profits to the financial sector (Crotty, 2005).

(iii) Anti-reductionism

Given the massive contradiction at the heart of financialisation as theorised by heterodox economists – namely, that its continued development depends on the repression of wages and rates of industrial investment that, by lowering growth and employment, have the converse effect of undermining the material foundations of its continued development – one see why few if any of these economists are prepared to bet on its survival prospects over the longer term. Thus Palley states that “there are serious reservations about the sustainability of the financialisation process” (2007, p.2), while Stockhammer ends his recent review of the literature on financialisation with a flurry of questions, the last of which is this: “ And, finally, will it (i.e. financialisation) last or will it go down in the thunder of further financial crises?” (2012, p.125). Other heterodox economists go further and predict that just as the previous era of financialisation came to an abrupt end with the stock market crash of 1929 and the ensuing Great Depression so the current phase of financialisation will most likely suffer a similar fate due to the huge damage done to the global real economy by the financial crisis of 2007-8. Lavoie for example, states that: “Just as the Great Depression called an end to finance capitalism, the current financial crisis should bring about the end of financialisation” (2012, p232). Vercelli similarly argues that, as with the first financialization in the early part of the last century, the second financialization of our own time is not

sustainable over the longer term because its “alleged advantages” are far exceeded by its “pathological aspects” (2012-13, p. 43)

If the very idea that financialisation will collapse at some point indicates a belief that this phenomenon is not functionally necessary to contemporary capitalism, this belief can in turn be traced back to a methodological feature that unites all heterodox discussions of financialisation: namely, the resistance to any form of methodological reductionism. In the abiding concern to maintain the realism of their theories or models, heterodox economists generally take the ‘sector’ rather than the ‘individual’ as their analytical unit. What results from this highly aggregative approach is the assumption, illustrated in figure 2a, that it is the associative principle (the personal, one to one relation between counterparties) that is the dominant economic principle under capitalism while the arms- length principle (the impersonal exchange relation) has a subordinate role. This ordering of economic principles is exemplified in the heterodox interpretation of the income-expenditure relation: while it is recognised that household expenditures on consumption goods conform to the arms- length exchange principle, what comes first in heterodox macroeconomic models is the fact that incomes are financed by the wages that are paid to households by firms on an associative basis. From this position, it follows that the bank-based form of finance is that which is most ideally suited to maintaining the stability and continuity of macroeconomic relations⁷.

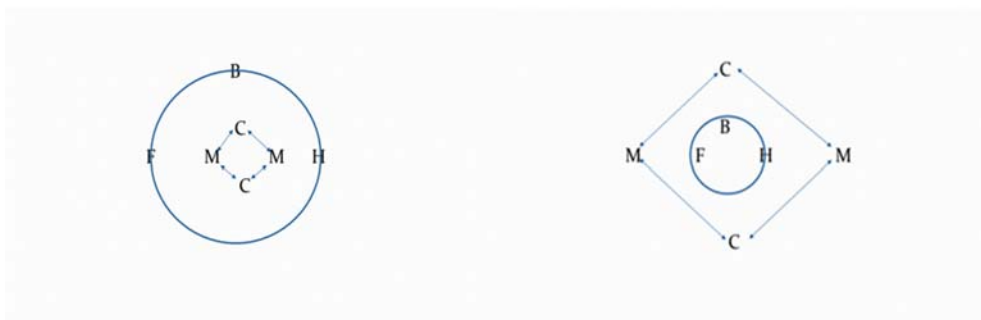
The crux of the matter is the quantitative relation between finance and material output. As can be seen in figure 1, the quantity of bank deposit money can never deviate significantly from the quantity of material output over any significant length of time because this form of finance represents exactly the same type of one to one relation in the financial sphere as exists in the production sphere. Indeed, the whole point of classifying bank deposits as ‘endogenous’ money is to bring out this fact that its quantity is always ultimately determined by the needs of firms and households engaged in production and consumption respectively. By contrast, and as can also be seen in figure 1, the quantity of capital market instruments can deviate significantly and for significant lengths of time from underlying output quantities because, once issued, the subsequent trading of these instruments need have no connection with the initial conditions of issuance. In other words, capital market forms of finance can assume quantitative proportions such as can potentially pose a threat to macroeconomic

⁷ Monetary ‘circuit’ theory, as the very name of this branch of heterodox economics implies, makes absolutely explicit the primacy of associative economic relations in general and of the bank-based credit relation in particular. See Lysandrou (2014) for a critique of this theory.

stability and continuity because these forms are representative of the impersonal exchange principle. If this potential threat is to be nullified, the capital markets have to be constrained in ways such as can maintain the impersonal principle in a subordinate position relative to the associative principle as illustrated in figure 2a; on the contrary, if the capital markets are allowed to grow to a size such that the impersonal exchange relation becomes the dominant economic relation that subsumes all other personal relations as is illustrated in figure 2b, the potential threat to macroeconomic stability can become a very real one.

Figure 2

(a) Domination of personal principle (b) Domination of impersonal principle



Key: M=Money; C=Commodity; F=Firms; B=Banks; H=Households

Impersonal exchange relation= \longleftrightarrow

Personal associative relation = ---

In view of the fact that orthodox Marxists similarly adhere to anti-reductionism, albeit that ‘class’ rather than ‘sector’ is their preferred analytical unit, it should come as no surprise to find that their analysis of financialisation is fundamentally the same as that of other heterodox theorists. Strip aside the different terminology and conceptual categories that are used and one finds the same basic interpretation of financialisation as a dysfunctional outgrowth of contemporary capitalism, a pathological symptom of its current phase of stagnation and decline. John Bellamy Foster, for example, echoing Paul Sweezy’s earlier views on the “financialisation of capital accumulation” (1997), argues that the current phase of “monopoly-finance capital” in which “financialization has become a permanent structural necessity of the stagnation-prone economy” is marked by “three crucial aspects: (1) The stagnation of the underlying economy meant that capitalists were increasingly dependent on the growth of finance to preserve and enlarge their money capital.(2) The financial

superstructure of the capitalist economy could not expand entirely independently of its base in the underlying productive economy –hence the bursting of speculative bubbles was a recurrent and growing problem. (3) Financialisation, no matter how far it extended, could never overcome stagnation within production” (2007, p.1-2). Costas Lapavitsas is another orthodox Marxist who has linked financialisation, characterised as a “booming financial sector”, to “poorly performing real accumulation” (2010, p1). Lapavitsas appears to differ from other heterodox economists in his specification of the “mediations through which the malaise in production has been associated with booming finance”, but the difference is rather more semantic than substantive in that these mediations are essentially those as also outlined by others in that they involve the same loosening of corporate financial ties with banks, the same trend shift on the part of banks away from their traditional deposit taking and loan business towards fee-based transactions in the capital markets and the same increasing involvement of households in the operations of finance. A final example of how the orthodox Marxist interpretation of financialisation essentially coincides with that of other heterodox economists is that recently given by Ben Fine. Fine defines financialisation “as the expansion of interest bearing capital in intensive and extensive forms” where the first signifies “ the growth and proliferation of financial assets themselves with increasingly distant attachments to production and exchange of commodities themselves and the second involves the extension of interest bearing capital to new areas of economic and social life in hybrid forms with types of capital”. (2013-2014 p.47). That Fine goes on to identify these intensive and extensive expansions of interest bearing capital as ultimately being nothing other than dysfunctional phenomena of modern capitalism is shown by the causal connections he makes between these phenomena and the financial crisis and the ensuing recession. To quote: “..this crisis was preceded by relatively slow growth by comparison to the post war boom (and current productive potential)...The reason for this is to be located precisely in the ways in which financialisation has governed economic and social restructuring, reducing levels and efficacy of investment (other than the fictitious) as well as undermining the broader social conditions within which such accumulation has taken place” (ibid.p.59)

The cardinal question arising out of the above discussion is whether the ordering of economic principles implicit in heterodox and orthodox Marxist economic theories and as is illustrated in figure 2a is indeed an accurate description of the fundamental nature of capitalism. If it is, then financialisation can only be construed as a pathological phenomenon in which case doubts about its sustainability and predictions of its possible demise are entirely plausible.

However, if it is the opposite ordering of economic principles as illustrated in figure 2b that is the more accurate description of capitalism's unfolding development it must then follow that financialisation is indeed an organic part of this development in which case the above doubts and predictions turn out to be completely wrong. In what follows we shall put this latter line of argument taking as our starting point Marx's own point of departure in his analysis of capitalism.

3. An alternative view of the content of financialisation

Contrary to the widely held assumption that Marx takes 'class' to be his foundational analytical unit, the opening part of *Capital* begins with a disaggregated category, a single element taken as the unit of analysis, the 'commodity'⁸. In beginning with the commodity Marx begins with the individual, but the individual viewed not subjectively but objectively, not as a preference maximiser but as a commodity seller. As individuals operate in a division of labour system, their commodities have to conform to social standards of provision – unlike 'products' that need only conform to privately established criteria – a constraint that immediately presupposes an essential role for money. In a neoclassical world populated by rational agents there is no need for money because the subjective preferences and choices of agents can be reconciled both with each other and with technological and resource constraints by some central market force or authority (e.g. Walras' 'auctioneer') that sets exchange ratios accordingly. In Marx's commodity world where there is no central price setting and market clearing authority, money is the medium through which social standards of pricing are set and enforced: it is through money's function as measure of value that each individual can assign a price to the commodity put on offer, while it is through money's function as medium of exchange that privately assigned prices are either sanctioned (offers of money by buyers inform the seller that the commodity conforms to social standards of provision and pricing) or falsified (the non-offers of money by prospective buyers inform the seller that the entity put on offer does not conform to social standards and thus does not qualify as a commodity).

While Marx's 'commodity' reductionism distinguishes itself from methodological individualism in that it can provide a realistic insight into the workings of decentralised, money-using economies, it distinguishes itself from heterodox macroeconomics in that it can

⁸ For further discussion of the microfoundations of Marx's economic theory see Lysandrou (1996)

provide this realistic insight in a way that respects the principle of logical generality on the one hand and the principle of historical evolution on the other. Take the first of these two distinctions. In focussing from the outset on the relations linking together the firm, household and bank sectors, heterodox theorists in effect begin, not with what all these sectors have in common, but with what differentiates them, namely, the fact that they all fulfil different economic functions: firms a production function, households a consumption role and banks a financing function. This opening focus on functional differences inevitably leads to a preoccupation with the associative relations that are necessary to the performance of the different functions – the wage relation in production, the credit relation in finance – a preoccupation that then reinforces the assumption that the associative relation is the dominant economic relation in the capitalist system. With Marx's commodity reductionism it is different. The whole point of this reductionism is to establish not only a realistic but also a generalising insight into the economic system: to reduce the system to a single representative unit is to allow one to see across the system and identify what all its constituent parts have in common. What is general to a modern economy is not the production relation or the credit relation, or indeed any other type of associative relation, but the impersonal commodity exchange relation. Only having first established this generality of commodity exchange relations as the all-encompassing framework of capitalism does Marx then proceed to discuss particular types of associative relations within this framework, beginning with the production or wage relation and subsequently the credit relation.

Now take the second distinction regarding historical evolution. An aggregative methodological approach that takes the sector as the analytical unit hinders the analysis of change in the capitalist system. The point is that the distinguishing characteristics of households, firms and banks in the 19th or 20th centuries are not all that different from the characteristics that these sectors have in the present century, which means that to keep attention constantly focussed on these sectors and on the distinct functions that they perform runs the risk of missing out on the emergence of any new economic phenomena. It is different with commodity reductionism because another of its advantages is that it enables one not only to see across space (to identify the generality of the commodity principle) but also across time (to track the unfolding development of the commodity principle). The key point is that the 'commodity' form is a historically-conditioned category: any entity that has a use value has the potential to become commoditised, that is, to have its exchange value determined against socially established standards rather than set by private negotiation, but it

is only under certain historical circumstances that that potential is realised. This is the case for example with material products. Elements of commodity exchange exist in most pre-capitalist economic formations, but it is only under capitalism that the commodity principle is stretched to the point where it covers most products traded within a given locality or region for it is only then that the labour power capacity itself becomes a commodity as large numbers of individuals are transformed into property-less workers who are forced to rely on the market for their subsistence needs⁹.

The contention here is that what happened to material products in capitalism's opening phase of development is now happening to financial securities in its current phase. The governments and corporations issuing securities never see them as commodities but only as a means of financing the production of commodities. Similarly, the small household investors who have traditionally dominated the demand side of the securities markets have never had cause to take a different view of securities as they have never had to rely on them as investables: a household can put its savings into securities but as it does not have to market a wealth portfolio to the public there is also nothing to stop it from putting all of its savings into other assets such as bank deposits or real estate. It is different with today's large institutional investors such as the pension and mutual funds and insurance companies who are now the dominant types of security holders¹⁰. Previously a small cottage industry catering for a few wealthy clients, institutional asset management has become a mass industry catering for the retirement and other welfare needs of large sections of the population. With this growth in the scale of asset management has come a corresponding growth in the scale of demand for assets whose use values are to serve as stores of value into which clients' money can be poured and from which money can be withdrawn to repay clients. In principle, other assets such as real estate, gold and other natural commodities can also be used as value containers. However, the physical constraints on the supplies of these assets, combined with certain disadvantageous attributes most notably a lack of liquidity, mean that institutional investors have to depend on financial securities as the major type of investable asset. It is this dependence that explains why institutional investors now tend to see governments and

⁹ For further discussion of the historical development of the commodity principle along 'stretching' and 'deepening' lines see Lysandrou (2005)

¹⁰ For data charting the recent growth of institutional asset management at a global level see e.g. TheCityUK (2013) or Boston Consulting Group (2014). The US experience illustrates the degree to which institutional investors now dominate the demand side of the capital markets. Where small household investors held 95% of US equity in 1945, that ratio had fallen to 23% by 2012. As regards US bonds, the ratio held by households is considerably smaller at between 9-10% (Goldman Sachs, 2013)

corporations as ‘dual commodity providers’, organisations whose function is to supply the debt and equity securities that are required for asset management needs just as it is to supply the material goods and services that are required for consumption or production needs¹¹.

If the growth in the scale of professional asset management has led to the increased demand for securities to serve as portable stores of value, it is the accompanying change in the way that the asset management function is exercised that explains (a) why institutional investors have pushed for the imposition of tighter transparency and information disclosure rules on security issuing organisations thus making it easier for them to cross compare the risk characteristics of securities and to price them accordingly and (b) why these investors have also pushed for the establishment of uniform governance standards against which the behaviour of governments and corporations and hence the risk characteristics of their securities can be monitored and controlled. It is the general rule that whenever an industry grows in scale there is a corresponding shift towards more standardised forms of provision so as to accommodate the increased demands made upon it. Professional asset management is no exception. In place of the broad based, discretionally managed portfolio that was previously the norm what is typical today is the narrow, rule governed portfolio managed to a specified combination of risk and return as advertised in a fund prospectus or as laid down in an investment mandate. Given that the overall risk-return profile of a portfolio depends on the risk-return characteristics of the individual constituent securities, one can see, firstly, why institutional investors need to make systematic comparisons of securities to determine their respective suitability for inclusion in a particular portfolio and, secondly, why these investors need to constantly monitor the characteristics of the selected securities (which means a constant monitoring of the organisations that have issued these securities) in order to ensure the continuity of their contribution to a portfolio¹².

Just as the growth of the securities markets and the tightening of the constraints imposed by them on security issuing governments and corporations can in large part be attributed to the structural changes in the asset management industry so too is this true of the recent explosion of financial trading volumes. In the case of the securities markets themselves, much of the increase in trading comes down to the fact that the standardisation of asset management has brought about a change in the very status of trading. Where trading was previously an

¹¹ For further discussion of firms as ‘dual commodity providers’ see Lysandrou (2013)

¹² For further discussion of the implications of asset management growth for corporate governance see Lysandrou and Stoyanova (2007) and Lysandrou and Parker (2012)

exogenous activity in that while needed to set up a portfolio it was not subsequently essential to its maintenance, it has now become an endogenous activity in that frequent trading is vital to keeping a portfolio to its specified risk-return target. As for the growth of trading in the money and forex markets, a large part of this growth can be attributed to the widening disparity (see again figure 1) between the size of securities stocks on the one hand and the size of bank deposits, the major component of the money supply, on the other. Securities, as with material commodities, need money to serve as a medium of exchange to facilitate their circulation and they need money as a store of value to temporarily bridge the gaps and discontinuities in their circulation. Faced with this increasing demand for money's services from institutional investors, but at the same time constrained by various factors including government monetary policy and by regulatory rules from creating deposits above certain limits, banks resolve the dilemma by passing around any spare cash among themselves. These cash recycling operations in the inter-bank and money markets take various forms, but it is generally the case that unsecured trades dominate the overnight markets where credit risk is negligible while the preference at longer maturities is for collateralised transactions that minimise credit risk and thus lower the cost of obtaining liquidity. This same point also helps to explain the growth in daily FX turnover that is fast approaching the \$6 trillion mark. Approximately one half of this turnover comprises of FX swaps, transactions that combine a spot transaction between two currencies and a forward reverse transaction between the same two currencies. While some FX swaps are indeed motivated by currency demand and exchange rate considerations, the majority proportion of these instruments are in fact motivated by money market type borrowing considerations in that they represent an alternative type of repo, the difference merely being that in place of government bonds it is a key currency such as the dollar that serves as the collateral¹³.

Although the trades described above typically have short time horizons they are not speculative trades. In fact, they are the antithesis of speculation for where speculators trade to exploit any price movements asset managers who trade for portfolio balancing reasons or banks who trade for cash borrowing or lending purposes try to do so in ways that avoid causing price movements. This is why institutional asset managers tend to deploy trading methods and to use trading venues such as ensure that their large orders cause minimal price

¹³ For further detailed discussion of the growth of trading in the capital, money and FX markets see (Grahl and Lysandrou 2003; 2006)

changes thereby reducing the potential costs of trading. This also is why banks who engage in repo and FX swap trades tend to execute these trades in the deepest and most liquid money and FX markets and thus where their price impact is minimised. However, while speculative trading is antithetical to portfolio balancing trading or to cash recycling trading between banks, it is also parasitic on the latter. The highly concentrated nature of trading in all of the major financial markets gives clear proof of this parasitism. If speculative trading was indeed a genuinely independent, self-enclosed activity, we should expect to find a much wider dispersion of speculative trades across different securities or currencies where there is greater scope for divergences of opinion or information. However, the opposite is the case as most speculative trading is concentrated on a very few securities or currencies, those with the most liquid markets and hence those most used by institutional asset managers and banks¹⁴. Try as they might to avoid causing price disturbances through their trade orders, institutional investors and commercial banks will always cause such disturbances that will in turn always give hedge funds and other speculators the opportunity to profit from them. Such disturbances are likely to be very small because of the measures taken to minimise them, but it is precisely for this reason that the hedge funds and other speculative institutions have to resort to sophisticated, computer based techniques (High Frequency Trading being a notable example) to trade the same securities or the same currencies many times over, sometimes as much as forty or fifty times a day, in order to extract any profit from these trades¹⁵.

Thus it is that the present day scale of non-speculative and functionally necessary short term trading in the major financial markets begets an even greater scale of speculative and potentially dysfunctional short term trading in the same markets. This said, there is no reason to take the speculative component of short term financial trading to be the defining content of financialisation. That content rather, is the commoditisation of financial securities as institutional investors are required not only to hold increasing volumes of securities to meet their asset management needs but also to price and trade securities against uniform standards to meet these same needs. Strip out financial market trading that is connected in one way or another with institutional asset management, and speculative trading collapses to a fraction of its current scale. However, strip out speculative trading and you would still find an enormous amount of short term trading that is necessary for asset management and consequently for

¹⁴ For further discussion on the concentrated nature of trading see Grahl and Lysandrou, 2006 and Lysandrou and Stoyanova, 2007)

¹⁵ For further detail on this point see Grahl and Lysandrou, 2014

much of the money market operations that support the liquidity needs of asset managers. Only if the growth of institutional asset management was considered to be an inessential feature of modern day capitalism could the volumes of trading triggered by that growth also be considered to be inessential. However, if the continued growth of this industry is essential, then so also must be many of the accompanying manifestations of this growth that go under the collective label of financialisation.

This proposition of course raises the question as to whether the continued growth of asset management is in fact necessary to contemporary capitalism. The commoditisation of securities that has been triggered by this growth may be entirely compatible with capitalism's unfolding development as a commodity system but an explanation showing logical compatibility is not enough. What is also required is an explanation showing functional necessity, for only with such an explanation can we unearth the fundamental cause of financialisation and, in so doing, extrapolate forwards and predict the future fate of financialisation. The next section addresses these issues.

4. An alternative view of the cause of financialisation

It would seem that any justification of the functional necessity of institutional asset management, and by extension of financialisation, is an impossibility. On the one hand, it has to be shown that the recent structural changes in the asset management industry and their various manifestations in the securities markets are necessary to the ability of the financial sector to serve the real sector; on the other hand, the discussion in the earlier part of this paper would suggest that such a task cannot be achieved as there are simply too many financial securities, too many conditions attaching to these securities and too much short term trading of them than can be explained in terms of the needs of the real sector. However, there is a way of resolving this conundrum and this is to go back to Marx and to the crucial distinction that he draws between the *capacity* for labour and the *activity* of labour as such. If this distinction can be applied to workers then so also can it be applied to government and corporate organisations; that is to say, a distinction can be drawn between these organisations' capacities for producing goods and services and the streams of material goods and services that actually flow from the use of these capacities. As regards these material outputs, the financial sector need not grow beyond a certain scale or assume any of the other characterising features of financialisation in order to facilitate either the efficiency with

which these outputs are produced or the efficiency with which they are allocated. Mainstream theorists may try to put the opposite view, but their arguments in support of this view are simply not convincing. By contrast, the position as regards organisations' capacities for production is very different. To the extent that the demands on these capacities grow in line with the continuing growth in the size and complexity of domestic capitalist economies, so also must there be a corresponding growth of the financial sector if it is to assist organisations carry the financial burden of these growing societal demands. To illustrate the point, let us begin with the government capacity.

While the government expenditure to GDP ratio averaged approximately 10% all through the 19th century and into the early 20th century, that ratio began to rise during the Great Depression and even more significantly after World War Two so that by 1980 it averaged about 45% where it has more or less remained (Tanzi and Shucknecht, 2000; Di Matteo, 2013). Despite all the neo-liberal talk of downsizing the role of the state, that size is likely to remain stubbornly high given the mounting pressures on contemporary domestic economies, not least of which are those stemming from demographic, technological and environmental changes, that require corresponding flows of government services to cope with those pressures. Faced with increasing demands on their capacity to govern but at the same time faced with limits on the amounts of tax revenues that can be generated, governments have increasingly resorted to bond issuance as the means of bridging the gap. If inflation targeting became the overriding macroeconomic priority for Western governments after 1980, where it remained at least until the outbreak of the financial crisis of 2007-8, this was a reflection not only of the neo-liberal ideological influences on these governments but also of their more urgent and more material concern to contain borrowing costs in the face of expanding borrowing volumes.

While the control of inflation and hence of borrowing costs is a necessary condition enabling governments to increase their borrowing levels, it is not a sufficient condition. On the demand side of the government bond market there has to exist an investor body large enough to accommodate the increased scale of government borrowing. The reality is that such a body does now exist courtesy of the very same pressures that have forced governments into continually increasing their supply of bonds in the first place. While other factors have played a role in the transformation of asset management into a mass industry, by far the most important is the move away from universal government provision of social and welfare services towards more selective forms of provision that give priority to the needs of the

poorest and most vulnerable sections of the population. As mid to high income households have been made to take more responsibility for their retirement and other welfare arrangements so have they had to take a keener interest in the returns on their assets, a development that helps to explain the ongoing shift in the composition of household assets away from bank deposits towards capital market securities¹⁶. At the same time, the fact that most individuals continue to have a limited appetite for risk even while they become more yield oriented helps to explain the trend towards delegating asset management to professional investors. As already noted, with the growth of asset management comes a corresponding growth in the scale of demand for investable securities, including government bonds. In addition to the increase in the issuance of bonds of given maturities, another important element in the expansion of the government bond markets is the lengthening of maturities. Bonds with a twenty or thirty year, or even longer, maturity are now being issued alongside shorter dated bonds as governments take advantage of a low inflation environment to spread out their debt repayments over longer periods of time. Only institutional investors, and particularly insurance companies and pension funds, have liabilities on a scale and of a maturity structure such as make their demand for bonds dovetail with the interests of their issuers.

The fact that the overwhelming bulk of household demand for investable assets is channelled through institutional investors rather than exercised directly has a crucial bearing on the depth and liquidity not only of the government bond markets but also of the markets for bank and non-bank corporate securities. Commercial banks have always tapped the capital markets for extra funding resources, but as their core lending business has grown so also has the importance of their contribution to the supply of securities (as can be seen in figure 1) for three sets of reasons: (i) increased lending to small businesses and households by banks on the asset side of their balance sheets, coupled with increasing gaps on the liability side caused by changes in household savings behaviour, explains the increase in the need to bridge these financing gaps with the issuance of bonds and short term paper; (ii) the same household and small business pressures on banks explains their pivotal role in the securitisation process as they attempt to accommodate the expanding demands for credit while at the same time containing the costs of this accommodation by off-loading loans in the form of asset backed securities; (iii) the constraints on banks to keep to ever tightening capital adequacy requirements explains the increase in their issuance of equity. Turning to the large non-bank

¹⁶ For further details on recent trends in household savings and asset allocation see BIS (2007).

corporations, those in the US and UK have always relied on the capital markets to supplement their longer term external funding requirements and, when doing so, have always tended to issue a mix of debt and equity securities in order to avoid an excessive concentration of risk on the one hand and an excessive dilution of the benefits of ownership and control on the other. What has happened in these countries in recent decades is that while the ratio of debt to equity forms of external funds raised by corporations has remained fairly stable the ratio of bank borrowing to capital market forms of funding has not. As the costs of the latter have fallen in line with the deepening and closer integration of the capital markets, so have American and British corporations increasingly come to rely on these markets for all but very short period borrowing requirements. The reason why corporations in other regions such as continental Europe and Asia that have historically looked to banks for virtually all of their external funding needs are now moving closer to the Anglo Saxon model of financing is partly because they themselves see the cost advantages of a more differentiated approach to external funding, and partly because the commercial banks in these regions – in their attempt to free up space in their balance sheets for more profitable lines of business – are encouraging their corporate clients to look to the capital markets for their long term financing requirements¹⁷.

While governments and corporations have reaped benefits from the dominant presence of large institutional investors in the securities markets, these benefits have not come without certain constraints, namely, the increased pressures on all security issuing organisations to comply not only with demands for greater transparency and information disclosure but also with demands that they tailor their behaviour in accordance with prevailing governance norms. These new investor constraints have come under heavy criticism on the grounds that they can potentially undermine the efficiency with which governments and corporation carry out their production or service provision functions (see e.g. Lazonick and O'Sullivan, 2000 or Lazonick, 2013, who are particularly critical of the negative impact of these constraints on private corporations). However, these criticisms miss the point that (a) the new investor constraints are all about protecting the efficiency of asset management and that (b) the protection of this efficiency has less to do with facilitating the efficiency of production in the underlying real economy than with financing the capacities for production deployed in that economy. The crux of the matter here comes down to the recent changes in the scale and duration of governmental and corporate dependence on the capital markets. When in the past

¹⁷ See e.g. Lysandrou (2009) for a discussion of recent changes in the continental European corporate landscape.

governments and private corporations would typically issue small amounts of securities or, if issuing large amounts would only do so as a temporary measure to confront a particular emergency or to fund a particular project, it was enough for them to have small household investors as the dominant type of investor on the demand side of the securities markets, a type that had no need to enforce strict conditions on security issuers given that the holding or trading of securities was not indispensable to their function as households. Today when governments and corporations have a large and permanent need of capital market forms of funding, they require a very different type of investor to be dominant on the demand side of these markets, namely, institutional investors who have liabilities on a scale and of a maturity structure such that match the assets issued by the borrowing organisations. But this type of investor, precisely because the holding and trading of securities is indispensable to their portfolio management function, do have need to enforce strict conditions on security issuers to ensure the ‘tangibility’ of securities, the reliability with which they can serve as portable stores of value. Thus governments and corporations today face a trade-off: they can either retain a certain freedom of action when issuing securities but then accept tight limits on the amounts of securities that can be issued, or they can seek to lift the limits on the amounts of securities issued but then accept tight constraints on their freedom of action. What security issuing organisations cannot do is to have it both ways: retain complete freedom of action while continually increasing the amounts of securities issued.

The upshot of the above is that financialisation signifies not so much role reversal as role reciprocity in that both the real and financial sectors now need to serve each other’s needs and interests. Once this point is understood, it then becomes possible to throw new light on the cause of financialisation and thus also on its survival prospects. As regards the question of financialisation’s cause, recall that most heterodox economists trace this to production and profit realisation constraints in the underlying real economy. The position here is different. While it is indeed the attempts to escape constraints in the real economy that are the driving force behind financialisation, these constraints have less to do with those of production than with those of time. The future is being colonised in order to make it take the overspill of the pressures on organisations operating in the present, with governments and corporations on the one side needing to issue ever increasing amounts of claims on their future income streams to meet their current production or service commitments and institutional investors on the other side needing to acquire ever increasing amounts of these claims to meet their current asset management commitments. This notion of the spatialisation of the future is alien to both

mainstream and heterodox economics, although it is so for very different reasons. For mainstream economics, firmly rooted as it continues to be in general equilibrium theory, its underlying assumptions are such as to eliminate the future as a distinct time dimension altogether: if there is a central market authority that not only sets prices for every good but also for every contingency and for every delivery date it must then follow that there can be no need for securities to serve as stores of value to be carried over from one time period to the next. Heterodox economists for their part do not collapse the future into the present. The fact that they completely dispense with the idea of a central price setting authority and thus take seriously the problem of uncertainty means that they see market clearing less as an instantaneous event than as a sequential, time consuming process in the course of which outputs and prices are adjusted in accordance with money backed demands for those outputs. However, while the future exists for heterodox theorists, it does so as a chaotic and fearful place, one full of dangers and pitfalls and thus not fit for permanent habitation by any self-respecting individual or institution. The only time frame that is both inhabitable and safe is the present, sandwiched as it is between an unrecoverable past and an uncertain future.

While once valid, this heterodox view of the future has become an anachronism. To drive home the point consider as an analogy the European colonisation of the American continent. The first European people to arrive in this continent were explorers, pirates and adventurers and only later did there begin a permanent settlement of the land with the arrival of large numbers of European families most of whom were escaping home pressures of one type or other. Just so with the colonisation of the future, for where its first regular occupants were typically speculators, fortune hunters and fraudsters, it is only now being permanently settled by the pension funds and insurance companies and other large institutional investors. In saying that the future is being turned into a structured space that is suitable for permanent habitation we are not suggesting that uncertainty has thereby disappeared and risk eliminated but rather that, in contrast to what was previously available, there now exists a wider and more sophisticated array of financial instruments (e.g. derivatives) and financial techniques (e.g. the narrowing and tiering of portfolios to a core-satellite pattern) for controlling and managing the risk on asset portfolios. However, the major new development that forms the overarching framework within which greater risk control is made possible is the imposition of the new transparency, disclosure and governance constraints on security issuing organisations. To again use an analogy, just as the buildings, transportation systems, communications networks and so on constitute the necessary physical infrastructure that

makes possible the production and trading of material outputs so do the new transparency requirements and governance rules and regulations constitute the infrastructure of time, the beams and pillars, the walls and floors that help to give body and shape to the future as an auxiliary economic space.

As regards the long term prospects of financialisation, we have seen that heterodox economists are generally sceptical of these prospects with some going so far as to doubt that financialisation will survive even in the short term because of its alleged causal role in the recent financial crisis. We believe this allegation to be incorrect in that while financialisation was certainly implicated in the crisis - how could it not be given that structured credit securities were at its epicentre? - it was not its primary cause. Rather, that role belonged to the structural imbalances in the global capitalist economy, the most notable of which was the huge growth in income and wealth inequality¹⁸. Financialisation could still be said to have had causal primacy in the crisis if it had been the main driver behind the huge growth of economic inequality in the period prior to the outbreak of the crisis, but in our view this also was not the case. Financialisation undoubtedly helped both to accelerate inequality, for example through helping to make securities-related inducements a major component of corporate and banking remuneration packages and it undoubtedly helped to accommodate the growth of inequality, for example through helping to provide the accumulating quantities of private wealth a convenient means of storage. This said, the fundamental cause of inequality in the current era of capitalism as in every previous era is exploitation: the continual suppression of wages towards subsistence and other minimal levels thus giving maximum space to the extraction and distribution of profits¹⁹. Until this process of surplus extraction from the world's majority and its distribution amongst the world's minority is reversed, economic crises will continue to break out in the future as they have done in the past even though each successive crisis may possibly differ in its locus of origin, in its outward manifestation or in its scale and reach of consequence. Through all of these crises, however, financialisation will continue to develop and it will do so for the following two reasons.

¹⁸ For further discussion of this viewpoint see Lysandrou, 2011 and Goda and Lysandrou, 2014)

¹⁹ The linkages running between the contemporary processes of financialisation and exploitation need to be the subject of another paper, but suffice it to observe here that the two processes should not be collapsed into each other as is done, say, in Lapavistas (2009) or in Bryan et.al. (2009). To illustrate the point note that if (a) financialisation, stripped to its core, consists of the growing domination of global securities stocks over annual output flows then (b) much of this growing domination is powered by securities, e.g. government bonds and financial bonds, that have no immediate link to the exploitation of individuals.

The first concerns the advanced market economies that currently account for the overwhelming majority of the world's securities stocks. Predictions that the financial crisis will bring about the end of financialisation in these economies could not have been more wrong because the crisis is, if anything, bringing about the exact opposite result. Consider the supply side of the capital markets in the advanced economies. Already needing to issue increasing amounts of bonds to bridge the widening gaps between their expenditures and tax revenues before the outbreak of the financial crisis in 2007-8, the governments of these economies have since been forced to depend even more on bond issuance as a means of financing the policies needed to contain the economic and social fall-out of the crisis. Similarly, the financial crisis will likely see a greater, not lesser, boost to financialisation coming from the banking sector as banks are forced to issue more equity to keep to tightening capital adequacy requirements, to issue more bonds to fund the widening gaps between their asset side lending to households and businesses and their liability side shortfalls in households deposits and, finally, to securitise more loans as a further means of conserving capital. Now consider the demand side of the advanced economy capital markets. Given that one of the likely major consequences of the financial crisis is to accelerate the ongoing government policy shift away from universal forms of social and welfare provision towards more selective forms, and given that a post-crisis low interest rate environment is likely to persist for some time thus placing tight constraints on how much interest banks can pay on household savings deposits, we are likely to see more households place their savings with institutional asset managers thus requiring the latter to increase their demand for investable securities.

The second reason why financialisation will not only continue to survive but also continue to scale new heights concerns the world's emerging market economies. Globalisation may not be a reality from a 'location' standpoint in that most economic activities continue to be conducted within national or regional borders, but it is a reality from the 'constraint' standpoint in that globally harmonised pricing standards now exist for most material goods and services produced in the world today²⁰. Following the complete collapse of colonialism in the mid part of the last century and the near complete collapse of communism towards the end of that century, the EMEs have come to play an integral part in the globalisation of commodity relations as attested by their growing share of world GDP (37% in 2012 as

²⁰ See Lysandrou (2005)

compared with about 20% in 2000)²¹. By contrast, their role in the financialisation process remains negligible as shown by their low percentage share of world equity stocks (15% in 2012) and even lower percentage share of world bond stocks (just 9% in 2012)²². Part of the explanation for this state of affairs is that policy makers in the EMEs have deliberately promoted bank-based forms of finance over capital market forms because the former fit more easily into government coordinated plans for promoting rapid economic growth and development. Another part of the explanation may be that the kind of transparency, governance and other such standards that are required to develop deep and liquid capital markets are orders of magnitude more difficult to establish and maintain than are the production standards covering material goods and services. However, whatever the obstacles that have previously stood in the way of capital market development in the large EMES at least, these obstacles will sooner or later have to be overcome because the various organisations operating in these economies will need at some point or other to increase the amounts of securities that they issue. They will need to do so because as their economies continue to grow and mature and as, therefore, the corresponding pressures on their capacities for activity continue to mount so will they need to increasingly colonise the future so as to make it carry some of the load of these pressures.

5. Conclusion

Financialisation is here to stay. There will come a time when the global economic system will be organised according to a principle that is very different from the commodity principle that is the norm today, but until then financialisation will continue to be a functionally necessary feature of this system. This is not to say that there are no dysfunctional aspects of financialisation. On the contrary, it is recognised that there are several such aspects that are serious enough to require urgent attention. The huge growth of speculative trading conducted by the hedge funds and other such parasitic institutions is a case in point. Another is the huge concentration of wealth in the hands of a tiny number of super rich individuals who are the main clients of the hedge funds. However, these and other serious disorders will not be resolved through the use of strategies whose broader remit is to challenge the whole financialisation process. Such strategies that aim to contain or reverse that which is

²¹ IMF (2013)

²² IMF, (2013); Grahl and Lysandrou (2014)

uncontainable and irreversible will achieve nothing and will get in the way of those strategies that can achieve something. If the dysfunctional aspects of financialisation are to be successfully targeted and eliminated they must first be isolated and separated out from the functionally necessary aspects. The present paper has sought to contribute to the kind of understanding that is needed to make this separation.

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