

Abstract

Markets worldwide have been so impressed with what finance *can* do that very few people have stopped to think about what finance *should* do. This is where the parallel between finance and the *Man of Steel* ends, but it is where the critique of a whole system begins. The world has failed to question whether financial markets have become inappropriately powerful. It is true that finance and creative accounting have increased firms' profitability and market value, but it is also true that investment in such areas has deprived the economy of growth. Real product development has been malnourished as of late, while financial engineering has been spoiled rotten. This paper will provide an overview of how the American economy has suffered by putting its eggs in the wrong basket. The analysis will explore the shift from the real economy to finance, the ways the shift led to the crisis of 2008, and the true underlying reason for such an infamous swing. Such analysis will be followed by a critique of the system and of the findings themselves.

The critique will establish assumptions from which a fresh understanding of the discipline of finance will flow. The paper will survey the basis for a proper understanding of the goal of the firm, which will then help the reader develop a proper understanding of the purpose of finance. The conclusions about the goal of finance will be arrived at through the use of deontological ethical frameworks and Reformed theological constructs, such as sphere sovereignty, common grace, and stewardship. Furthermore, the paper will conclude with recommendations for future research, namely the uniformization of terms and the "dumbing-down" of data, and with the advocacy of two crucial changes in the field, namely that companies should beware of financialization, and educators ought to take a normative approach to finance.

Literature Review

I. Houston, We Have A Problem!

It is essential to begin the discussion by exposing the fact that there is a problem with the financial market. Like most things, finance falls somewhere in the continuum of conflicting opinions; finance is probably more beneficial than the Occupy Wall Street Movement would like to admit, but it is also more dangerous and less beneficial than financiers themselves seem to believe. Therefore, it is of utmost importance for one to be able to "separate the wheat from the chaff" (Zingales, 2015, 1328) to put it in Zingales' words, if one has any intention of painting a fair picture of the situation. Luigi Zingales, the former president of the American Finance Association, raises the questions of whether "financial innovation over the last 40 years has been beneficial and whether the size of the U.S. financial system has outgrown its benefits" (1340). The way he tackles these issues is by challenging the theoretical and the empirical basis for the wide belief that finance contributes to growth. By alluding to the works of Greenwald and Stiglitz, Hart, and Elul, he argues that theory would support the idea that finance may have negative effects on market efficiency. The basis for this is that, according to the First Welfare Theorem, the introduction of a new market into an incomplete market economy, which evidence has shown to be the case in the real world, "can make all agents worse off" (Zingales, 2015, 1340). Thus, Zingales claims, "there is no theoretical basis for the presumption that financial innovation, by expanding financial opportunities, increases welfare" (Zingales, 2015, 1340).

By means of evaluating empirical data, there seems to be a lack of evidence supporting the idea that finance leads to growth. This statement may sound contradictory when one takes into account the "large body of evidence" that suggests that a large banking sector is correlated

with higher growth. It seems, however, that more recent evidence challenges such notions. Arcand, Berkes, and Panizza discovered a "nonmonotone relationship" between finance, represented by ratio of credit to GDP, and growth; there is a tipping point at which "the marginal effect of financial depth on output growth becomes negative" (Zingales, 2015, 1340). These findings are well in line with the rest of economic theory, as one would expect to encounter diminishing marginal returns to all things in the production function. For instance, most of economic growth theory is based on the notion of diminishing marginal returns to capital. Interestingly, however, the notion of diminishing marginal returns to finance, or to credit, is not explicitly discussed in academic circles, and the notion of negative returns to financialization is even rarer. With such findings in mind, one ought to begin to wonder if there is any justification for the financial sector to account for about 7% of the economy, and 25% of all corporate profits (Foroohar, 2016). Zingales himself claims to be unaware of a positive correlation between the growth of the junk bond market, the option and future markets, or over-the-counter derivatives and economic growth. On top of the lack of empirical correlation, there is the fact that the crisis of 2008 was caused by the very behavior being discussed: excessive and speculative finance.

To build on this argument, there is an apparent correlation between financialization and a decrease in growth. Rana Foroohar, in her book *Makers and Takers: The Rise of Finance, and the Fall of American Business*, fiercely argues that the unrestrained growth of the financial sector is responsible for "the longest and weakest economic recovery of the post-World War II era" (Foroohar, 2016, p. xi). Foroohar's argument is based on three main concepts: financialization draws resources that could have been put to better use in the real economy; financialization is inherently dangerous because of the risks it assumes; and financialization

leads to myopic behavior by corporations. The latter two assertions can be deductively confirmed by simply glancing at the financial crisis of 2008 and at some corporations' balance sheets. The first assertion, however, is made evident by more than the economic notion of resource constraints. Or stated more candidly, if the brightest minds are working for financial institutions looking for small margins to prey on, they are not building spaceships.

Although resource constraints may be the underlying reason, empirical data confirm the notion that there is such thing as an excessively large financial sector. At least two works of research have been written to examine the topic; the earlier by Cecchetti and Kharroubi, and the later by Cournède and Denk. Both articles arrived at the same conclusion: there is a threshold at which increases in the size of the financial sector become counterproductive. The studies show a nonmonotonic, parabolic relation between increases in "finance," measured by value added to GDP or employment amount, and GDP growth. The high point, at which further financial development leads to contractions, is approximated by the point when private capital exceeds GDP, or if using employment measures, "when the financial sector represents more than 3.5% of total employment" (Cecchetti & Kharroubi, 2012, 2).

Both of these measures are relevant to the U.S., because, as one may expect, the U.S. is beyond the point where financial development is productive. In terms of private capital, the country found itself at a level greater than 200% of GDP by 2008, and in terms of employment, the financial market takes up about 4% of American jobs. The message should be clear; "there is a pressing need to reassess the relationship of finance and real growth in modern economic systems" (Cecchetti & Kharroubi, 2012, p. 14). Thus, reaffirmed by very complex analytics,

Foroohar's point stands, financialization negatively affects growth, and America cannot afford to ignore that.

II. In Data We Trust

Now that we have seen that there is some evidence for the belief that financial market making has outgrown its benefits, let us analyze whether Foroohar's claim that the rise of American finance is driving the decrease in productivity in American firms. The implicit question being asked by the academics is whether the correlation between rise of finance and fall of economic growth is marked by causation. Engelbert Stockhammer is one of many to entertain the possibility of a negative correlation between financialization and growth. He develops his model based on Keynesian understandings of the firm and of "the role of accumulation and investment as the driving force behind growth" (Stockhammer, 2004, p. 719). Stockhammer goes great distances to create a theoretical foundation upon which to present his findings. He argues, like a good Keynesian, that the firm is made up of workers, managers, and investors; the workers pursue wages, the managers pursue growth, and investors pursue returns through interest and dividends. Such division of classes within the firm is in no way *calpurnical*, it is merely necessary for his true argument, which is as follows: the so called "shareholder revolution" has confused the roles of managers within the firm. An important extension of this model is the implied assumption that managers and investors are put at odds, because managers are to pursue long term growth, and investors are interested in short term returns.

The Post-Keynesian understanding, which puts profit maximization as the central goal of the firm, has been marked by the fact that a large part of management's pay is now made up of stock-options and similar perks to stimulate such goal, preferably immediately. This change in the structure of compensation put management in two conflicting positions simultaneously; namely, that of stewarding the resources of the company as to generate long run growth, versus that of taking actions to boost stock price as quickly as possible, without regard for the distant future. Thus, the argument follows that management started making decisions to boost short term returns, instead of pursuing long run growth. Rana Foroohar pours great energy and passion upon this subject in her book; she believes this promulgates the disparity between Wall Street and Main Street. Both authors focus heavily on the shareholder value tradition, critiquing the trend of moving from "retain-and-reinvest" to "to downsize-and-distribute," arguing that such behavior benefits only the investors, and only in the short run.

Stockhammer addresses the real question when he jumps from theory to reality in an attempt to assess the fairness of the idea of a trade-off between profit and growth. His methodology is centered around the observation of the developments in the financial sectors and the simultaneous slowdown in accumulation in the USA, UK, France, and Germany, from the 1960s until the early 1990s. Although his results proved to be statistically insignificant for the most part, they were economically significant; that is, the increase in a "rentier" side of non-financial businesses has strong impacts on accumulation (Stockhammer, 2004). The findings show that financialization was responsible for most of the slowdown in the USA. Although the results in Germany and the UK were not as cooperative to the thesis, Stockhammer believes that the argument still stands because of the economic stages in which the two nations found themselves; the UK had very little accumulation to begin with, and Germany was still very young to the shareholder revolution.

Conversely, some believe Stockhammer's results to be inconclusive at best, and wrong at worst. Andrew Kliman and Shannon Williams were just two thinkers to take great issue with Stockhammer's position. They argue that financialization is not only a dubious term, but also not responsible for the decrease in American productive investment. The heart of their argument, and findings, is that there was no diversion of funds from productive investment toward financial assets. Moreover, they claim that the decrease in investment was not driven by the expansion of neoliberal thought, a.k.a. shareholder value. Kliman and William's main point of contention is that Stockhammer and others measured the decrease in investment starting at a time when the rate of investment was unsustainably high; therefore, irrespective of other changes, the rate would have naturally dropped. Furthermore, they found that once they controlled for the rise in the rate of depreciation in their calculations, "the share of profit invested in production was as great or greater throughout the neoliberal period as a whole as it had been during the preceding decades" (Kliman & Williams, 2015, p.88). Thus, they do not believe that the decrease in productive investment was caused by the financialization of nonfinancial firms, but rather that it was caused by the decrease in profits that came around at the same time as neoliberalism; a decrease that they attribute to external factors. It is important to mention that the authors did not give a satisfying explanation for the decrease in profits, as they failed to name such factors.

Kliman and Williams fail to account for a couple of variables in their study. It is a bit simplistic to negate the attribution of the decrease in capital accumulation to financialization, in favor of the attribution to the decrease in profits by saying that diversion never occurred because firms borrowed the funds to pay for their dividends and buybacks. In their analysis they failed to account for the fact that the large increase in debt, ironically enough used to finance

been much stronger had they used earnings before interest and taxes (EBIT) as their measure; but one may contend that if that were the case, they would not have an argument at all. One could argue that profits are being diverted to pay for the debt incurred rather than being productively invested. Moreover, nowhere in their article did the authors provide a satisfying explanation of the opportunity cost of financialization. They spent so much effort addressing how corporations have borrowed to pay for their financial endeavors, that they forsook commenting on what those borrowed funds could have been used for. They never mentioned the rate of return of alternative endeavors that firms could have pursued. Every corporate financial management program in the country teaches its students to measure the marginal costs of borrowing against the marginal benefits of different opportunities, and yet they failed to address the possibility that the borrowed funds could have been used for other real, as opposed to financial, investments.

Yet another scholar in the discussion, Brett Fiebiger, believes that the decrease in accumulation is less related to financialization and more related to globalization. He argues that due to unfavorable economic settings and regulations, many corporations have fled to tax-havens. Fiebiger agrees with Kliman and Williams that "there is a potential for a trade-off regarding decisions to expand productive capacity in the domestic sphere versus the international sphere" (Fiebiger, 2016, p. 15). His main point is that "US national NFCs [(Non Financial Corporations)] now have a strong preference for external accumulation and have forsaken a sense of nationalism for a 'home' in tax havens" (Fiebiger, 2016, p. 24) and that such preference has been the cause of the decrease in productivity that the American economy has experienced.

As we will see in the study of Ireland and Iceland, there are more factors than just taxes that stimulate the foreign preference of US corporations.

Aside from productivity and accumulation, it seems that financialization has a substantial effect on employment dynamics. Ken-Hou Lin, from the Department of Sociology at the University of Texas at Austin, analyzed the impact of increases in financial activities within nonfinancial firms on workforce growth (or contraction). He mentions that part of his analysis involved contrasting the effects of globalization and financialization on employment dynamics, because of the stigma that globalization currently holds. Interestingly, he found that both trends affect American employment negatively. Lin's research concluded that, for a given firm, "if the level of debt ratio remained at the 1982 level, the firm would employ nearly 9 percent more production workers, 6 percent more service workers, and 7 percent more total workers in 2005" (Lin, 2005, p. 27) than it actually did; to put it simply, if firms had not borrowed as much, they would have spent more resources on workers. It is important to note that in his argument Lin creates room for the possibility that financialization contributes to some types of employment growth, namely workers and managers in areas of finance. However, he nevertheless believes that the rise of finance and the shareholder value ideology have "marginalized the role of labor in revenue generating and sharing processes, which in turn led to employment stagnation among the largest firms in the United States" (Lin, 2005, p. 28). Lin argues that investment in financial assets crowds out investments in unemployment in three different ways: by sheer allocation of resources, by increasing debt, and by giving managers incentives to act in ways that are not beneficial to employment growth. Ultimately, Lin's analysis provides us with evidence of the negative impacts of the rise of finance, especially in nonfinancial corporations.

III. Frailty, Thy Name is Finance

Irrespective of whether financialization crowds out *productive* investment, there seems to be little question as to its effect on stability. If the causes and effects of the American financial crisis of 2008 were not clear enough (namely the aggressive growth of the financial sector and the unapologetic investment in speculative assets) let us look at what finance did to two smaller economies where studies can control more variables. Raza, Gudmundsson, Zoega, Kinsella (2016) argue precisely that disproportionate growth in the financial sector of a given economy can, and indeed does, lead to great economic fragility. The article poetically begins with the James Russell Lowell quote: *One thorn of experience is worth a whole wilderness of warning*. Raza then proceeds to offer "Two thorns of experience," in Ireland's and Iceland's testimony of the 2008 crisis.

In both economies the argument is that the financial sector outgrew its capacity, becoming insatiable. Ireland became an "international hub" for investments due to "tax policy initiatives aimed at attracting foreign investments," and its entrance in the Eurozone (Raza et al., 2016 p. 3). Moreover, the large capital inflows led Ireland to engage in very aggressive lending in property markets, which eventually led to an asset bubble burst in those markets "caused by excessive credit lent to households from the financial corporate sector" (Raza et al., 2016, p.3). Ireland's pro-cyclical fiscal policies aggravated the situation; amidst the financial proliferation, the Irish government decreased taxes, and engaged in coordinated wage-setting policies that increased wages over the period. These factors, along with the hardly unnoticeable increase in

inflow of capital, caused the economy to overheat. Additionally, regulations were "lacking in the extreme" (Raza et al., 2016, p.4), and banks were not managing risk sufficiently, thus leading to high risk concentration. Raza et al. argue that the housing market bubble could have been avoided with effective regulatory supervision to contain the credit supply. Ireland found itself growing exponentially, in a manner that was actually quite dangerous. The tipping point, which caused the whole system to collapse, was the sudden stop in capital inflow caused by the American crisis in 2008. In Ireland (different from Iceland, as we will see) the obligations of the whole banking system were guaranteed by the European Central Bank. Nevertheless, the meltdown of the financial system, upon which the economy had become too reliant, led to a 15% contraction between '08 and '09.

Iceland, on the other hand, experienced the same narrative through different mechanisms. Iceland made itself attractive to foreign investors by benefitting from low risk premia and high liquidity, due to its small open economy nature, and by lowering taxes, regulations, and supervision in order to attract foreign investment. Moreover, the liberalization of the European financial environment facilitated borrowing from foreign banks, something that the country took great advantage of. Additionally, Raza explains that "Icelandic companies and newly privatised banks benefited from the AAA status of the sovereign and rushed into financial ventures overseas, eventually accumulating financial debt and assets of gargantuan proportions" (Raza et al. 2016 p. 3). This accumulation of foreign debt was not met with a simultaneous hedging of the Icelandic krona; meaning that the banks and corporations were not protected from a currency depreciation. The incentives to lure foreign investment worked beautifully, and the system worked like a well oiled machine: as long as capital inflows were increasing, the stock market

prospering, and the currency appreciating. The similarities between a Ponzi scheme and the Icelandic economy between 2000 and 2008 are uncanny. Just like any other fraudulent pyramid, the system crashed when capital inflows came to a sudden stop; in this case the sudden stop was also called the Financial Crisis of 2008. The effects of such crisis were even more pervasive in Iceland, due to the fact that it was not part of the Eurozone and that it lacked a lender of last resort to bail out its institutions. The depressing consequence of such irresponsible growth of the financial sector was a contraction of almost 40% of Icelandic GDP between 2007 and 2009.

As counter-intuitive as it may sound, some believe that financial instability is a byproduct of monetary stability. Felix Martin, writer of *Money: an Unauthorized Bibliography* –

From Coinage to Currencies, takes on the challenge of explaining financial crisis from a
theoretical perspective. The central argument in his book is that society has had a wrong
understanding of what *money* really is, which has been pervasively problematic. One of the most
fascinating arguments in his book is his understanding of the impact of low (or stable) inflation
on the financial market.

Martin argues that due to the inflation problems that central banks had faced in the 20th century, price stability was the central target at the turn of the millennium. This led, for instance, to the Bank of England and the European Central Bank having the control of inflation as one of their central responsibilities. Martin then argues that "the single-minded pursuit of inflation not only drew attention away from the other monetary and financial factors that were to bring the global economy to its knees in 2008 – it exacerbated them" (Martin, 2016, p. 219). The mechanism by which such catalyzation worked is that an environment of low inflation, marked by the presence of a successful central bank, leads to investor confidence and optimism, which

then leads to the willingness of investors to assume higher risk and less liquidity. Martin believes that "squeezing the [proverbial] balloon in one place [...] will simply reinflate it in another" (Martin, 2016, p. 220). Thus, he eloquently argues, "monetary stability will actually breed financial instability" (Martin, 2016 p. 220). Martin's insight in finding underlying reasons to the crisis of 2008 does not end there, as he goes on to argue that the incongruence in the academic understanding of finance and of economics is also responsible for the lack of an efficient response to the crisis; a subject that is beyond the scope of this text.

IV. From Macro To Micro

It is appropriate to assume that if financialization has negative effects on a macroeconomic level, then some extent of those effects should also be observed microeconomically. Such assumption is the foundation of one of Foroohar's central arguments, and of a Washington Post article by Jia Lynn Yang (2013). Financialization has manifested itself in the corporate setting not only through the increase in financial activity, even in nonfinancial corporations, but also through a change in goals. Shareholder value maximization undoubtedly has changed corporate America; the question is whether it was for the better. Business schools seem to think that such shift is the pouring out of God's grace upon corporate America, and teach it as if it were the gospel truth. However, the model has been met with some resistance lately, as it seems to have caused, or at the very least propagated, the most recent financial crisis.

Foroohar argues that the shareholder value model has taken the power from car guys and put it in the hands of bean counters. At the heart of her argument is the recent story of General Motors. Foroohar argues that the GM switch crisis, that caused at least 124 deaths, the depressing creation of the Pontiac Aztec, and the fall of Hewlett-Packard were caused by a "very

long-term shift in corporate America toward balance-sheet driven management" (Foroohar 2016, p. 69). She argues that the blind pursuit for shareholder value maximization, driven by several factors like the Dodge v. Ford lawsuit, the increase of MBAs in CEO positions, and the rise in popularity of Taylorism and the Whiz Kids, is the reason for the fall of *real* American business. She shows that profits and stock prices of the large American car manufacturers were indeed growing, but that such growth came from cost cuts. She mentions how GM's stock was boosted in 1991 by the decision to "close twenty-one plants and cut 74,000 workers" (Foroohar 2016, p. 83). Such increase in profits were "increasingly bolstered not with truly new products and technologies, but by nipping and tucking costs" (Foroohar 2016, p. 83). All of this for the sake of maximizing shareholder value, a goal that indeed was achieved, but a goal of which the pervasive effects were not noticed until the post-war recovery was over. Her conclusion is logical and self-evident: if companies are managing the bottom line by cutting costs, and thus not investing in R&D, their growth will be limited in the long run. Evidence of this comes also from Stanford University research that shows tech firms cut down on innovation by 40% after an IPO, because at that point the focus becomes shareholder satisfaction as opposed to future growth (Bernstein, 2015).

Yang joins her in a call for a shift away from the Chicago school of thought. Yang tells the story of the decline of IBM, as told by the rise of shareholder maximization. The company had a change in leadership that led to a stark change in culture. When IBM was put in the hands of Louis V. Gerstner Jr., everything changed. Gerstner Jr. changed the list of stakeholder priorities, moving employees and innovation from the top of the list all the way to the bottom (Yang 2013). The company went from taking pride in avoiding layoffs, to unapologetically doing

it to boost stock prices; the goal went from meeting needs of society and employees to "nearly doubling earnings per share to \$20" (Yang 2013). The vulnerability of such a model was exposed as IBM's stock price fell from \$129 per share to \$74.88 between July and December of 2008 due to the crisis, which was caused and worsened by the increase in size and recklessness of the financial market. Yang also notes that IBM's change in culture had a significant impact on American business because of the company's influence; like blind sheep, American business followed IBM as it fell into an abyss of mismanagement.

The critique goes much further, in directions that are much too pervasive to be discussed here, but the idea can be observed in these few cases. American business has arguably moved from managing the top line to managing the bottom line. Remember also that American business has simultaneously increased in presence in the financial sectors. A potentially deadly combo that can lead to productive/innovative stagnation and financial vulnerability. Thus, the literature has shown that financialization, whether defined as an increase in participation in the financial sector or a shift to focusing on shareholder value, has had pervasive effects in American society, business, employees, and consumers alike, all of which culminated in 2008.

Informed Response

I. Do Put Finance In a Box

1. The Debate

One can only arrive at a proper understanding of the appropriate role of finance in the context of business after one has arrived at a proper understanding of business itself. Thus, the discussion of finance as a normative science leads us directly into the arms of the famous discussion of the ultimate purpose of the firm. "Friedmanite" thought has morphed into the

shareholder value maximization (SVM) movement, which has been identified earlier as both one of definitions of financialization and potentially one of the drags on productivity that the American economy has experienced in recent years. According to Friedman (1970), the firm's only social responsibility is to maximize profits. It is important to note some nuances and clear downfalls in Friedman's theory. First, Friedman does acknowledge that corporations must indeed behave in a way that conforms to the rules of the society, both legal and ethical (Friedman, 1970). To put it clearly: while the social responsibility of the firm *is* to maximize profits, the firm can only succeed in doing so if it acts responsibly. Thus, in a sense Friedman understands socially altruistic behavior in the same way that one would understand the payment of taxes: the citizen is required, and expected, to pay only as much as he owes and not a penny more.

A different understanding of the firm, and of its responsibility to society, has become known as stakeholder theory. R. Edward Freeman was the original advocate for this theory, the crux of which is the idea "that all behavior that influences another person entails responsibility" (Wescher, 2008, p. 143). The most marking characteristic of stakeholder theory is the explicit assertion of the firm's responsibility to be beneficial to its shareholders, suppliers, employees, customers, and communities. Although this is not as explicit, it seems that Freeman believes that these responsibilities are simultaneous, not sequential; that is, his primary concern is not in the priority of specific stakeholders but rather in their concurrent satisfaction.

Stakeholder theory has become increasingly popular as of late for a wide variety of reasons ranging from the Enron and Worldcom accounting scandals to the increased understanding of the value of employees and/or the environment.

2. Picking Sides

Friedman's investor capitalism clearly states that the goal of the firm is to maximize the return of shareholders. Unfortunately, however, such a claim produces a mindset that complicates decision-making. As expressed earlier, the shareholder value maximization model leads to a tendency to make decisions that produce immediate results, often to the detriment of long term profitability. One reason for such diagnosis of myopia is that the easiest, and also most efficient, way to increase profits is to cut costs. Cost cutting, although beneficial through the elimination of non-value-added activities, can be dangerous if done only for the sake of Machiavellian accounting: just ask IBM. Another reason is that investors in equity markets, especially day traders, are not worried about the company's success five or ten years from the date of the original investment, but rather they are interested in immediate returns. Moreover, executive and managerial compensation, as mentioned earlier, prompts a conflict of interest upon managers and executives, adding yet another layer of complexity to the conversation. In short, shareholder value maximization has led to a diversion of focus from the firm's actual purpose, to provide goods and services, in favor of an artificial goal to maximize numbers on the bottom of an income statement for the sake of pleasing the market.

The longitudinal downfall of SVM is a great testament to the importance of a proper ascription of value to the firm's different stakeholders. It is essential that the firm pursues the creation of *value* to all of its stakeholders because such pursuit will lead to a proper managerial mindset. Freeman's theory seems to force the firm to behave in a way that will be profitable in the long run, not because it specifically tries to, but simply because long run profitability seems to be a consequence of proper treatment of all stakeholders. Quatro (2016) makes this clear in his

discussion of the importance of the "primacy of human capital." Quatro points out that the firms that make up the *Fortune 100 Best Companies to Work For* have handsomely rewarded their investors with an appreciation of stock price almost four times greater than that of the S&P 500 over the last 15 years (Quatro, 2016, p. 70). The negative effects of the profit maximization mindset, coupled with the exuberant gains from the stakeholder perspective (made evident by human capital primacy), ought to suffice in what the true purpose of business should be: namely, doing good business rather than maximizing a specific piece of financial statement data. For the purposes of the argument in this paper, this will be assumed as the proper goal of the firm.

3. Free Man's Finance

Now that we have briefly surveyed the discussion of the purpose of business, we can move on to the discussion of the purpose of finance. Here we ought to make a distinction between financial institutions and non financial corporations (NFCs). Dealing with the earlier ought to be simpler, given that their purpose becomes an extension, or specification, of the general purpose for business, which is stated above. Financial institutions fulfill their purposes when they serve all of their stakeholders well. This is crucial because of the nature of financial products: financial assets are potentially dangerous for the buyer as they may completely depreciate in value, or even become liabilities (such as a bad short sale). The importance of a proper treatment of all stakeholders by financial institutions was made explicit through the lenses of the sub-prime mortgage crisis. Banks lent more money than they should have to borrowers that they should not have lent to, in order to embellish their balance sheets to please the eyes of managers and executives. This is an ironic situation because the banks' lack of regard for their clients led to the offering of loans to borrowers that (1) could not pay back and who (2) did not

understand the complexities of the agreements they were engaging in. The irony lies in the eventual downfall of entire institutions, as seen by the necessity of a government bail out.

Another example of such heedlessness for clients was the recent Wells Fargo scandal, where employees opened up fake accounts in order to meet managerial expectations as well as boost their own paycheck. Wells Fargo paid for this mistake on multiple levels, suffering scrutiny from all of its stakeholders: including the government, employees, clients. Thus, by *via negativa*, we can conclude that financial institutions are better off in the long run when they manage to satisfy the needs of all of their stakeholders *simultaneously*. The provocative term "financial weapons of mass destruction" should clearly demonstrate the desperate need for financial institutions to realize that they are responsible for their actions, and while they have the power to greatly benefit society, they are just as easily capable of destroying it.

The real challenge, however, is how firms should properly engage in financial activities when that is not their main line of business. At this point, it becomes essential to establish the purpose of finance as a peripheral activity. As shown above, there seems to be empirical basis for the belief that the increase in financial activities of NFCs has negative effects, either through a crowding out of productive investment, the impoverishment of employment dynamics, or simply a managerial distraction. It is nevertheless true that firms greatly benefit from the equity market and other financial institutions. Firms need to raise funds for a variety of reasons, such as capital acquisitions, and banks and equity markets common sources of access to such funds. Thus, it is good and right for firms to engage in finance, but only inasmuch as they need funds to finance their *real* investments (as opposed to financial ones). Furthermore, equity markets should be a source of access to funds, not a constant pressure on management; it is disconcerting the amount

of influence that the desires of short term investors can have on managerial activities. As discussed earlier, the market punishes companies for investing in R&D, but rewards them for redistributing earnings through dividends or stock repurchases, which then encourages managers to engage in the latter even though it has no effect on the long run competitiveness of the firm.

This raises the valid question of the extent of the sway that shareholders should have on business decisions, especially given the fact that they are the stakeholders that can most easily separate themselves from the firm. Which then leads us back into the discussion of shareholder value maximization, which we have established to be an improper management strategy due to its potential to undermine non-direct investing stakeholders and even direct investors in the long run. Therefore, given the losses from increased exposure to financial markets one must conclude that corporations should seek shelter from the primacy of the shareholders in order to protect other stakeholders, as well as themselves. Although this line of reasoning may seem inane, countless American corporations have fallen prey to the temptations of deviating from it, as seen by IBM's tragic narrative depicted by Yang (2013).

II. Go and Sell All Your Derivatives: A Biblical Framework

Now that we have established a framework to understand finance as a supporting activity to NFCs, and as a responsibility laden activity for financial institutions, we ought to survey it from a biblical perspective. Henry (1955) summarized the necessity of such endeavor

All Schemes of economic recovery which isolate economic thought and behavior from the spiritual and moral world cannot secure human well being, because economic activity is not in the service of God gravitates to the service of the demonic... Separate the economic sphere from the living God and His claims, and men will drift from one crisis

to another under any economic formula (p. 1244)

Given the importance of the financial sector, Christian practitioners cannot ignore it, and given its track record, such practitioners must seriously question its purpose in God's redemptive history.

It is valid to ask what purpose, if any, finance serves in God's *oixovoµía* (economy), or His work of self-revelation. This question becomes especially interesting given God's clear prohibition against charging interest in the Old Testament (Deut 23:19-20, Lev. 25:27, etc.), and His strong admonition against it in the New Testament (Lk 6:35, Rm 13:8). What then, should Christians make of this? Should they rationalize it away? Is it fair to say that "a child contends that a *fib is not a lie*, a president asserts *fellatio is not sex*, and Christians profess that *interest is not usury*" (Porter, 1999, p. 44)? If we use interest as a proxy for the whole financial sector, which is not much of a stretch since debt instruments were probably the first financial assets, we can extend this critique to the whole system. However, I do not think this critique to be appropriate. As we will further discuss below, it seems that God's prohibition of interest was far more concerned with the abuse of usury, the charging of exuberant interest rates, than it was with the mechanism of lending money in exchange for a premium. Three frameworks are essential for a proper understanding of this subject: sphere of sovereignty, common grace, and proper hermeneutics.

1. Sphere Sovereignty

The Kuyperian construct of sphere sovereignty can help us in this discussion. According to this Reformed framework, God's created order can be divided into several spheres, each having "its own identity, its own unique task, its own God-given prerogatives" (Spykman 1976,

p. 167). Naturally, if the field of finance is to have place in the created order, it ought to be placed under the sphere of economic activity, which is most directly influenced by businesses. Thus, as a subsidiary sphere, finance must share the purpose of its parent sphere (i.e economics). The central purpose of the sphere of economic activity is the subject of heated debate among academics, especially with regard to the extent of the obligation of caring for the poor¹. But for the purposes of this paper let us assume it to be the utilitarian pouring out of God's grace in a fashion that maximizes welfare while minimizing harm. Therefore, in simple terms, in this context we will work under the assumption that God uses trade/commerce to make as much of his creation as better off as possible in a fallen world. Furthermore, we must then conclude that finance is only fulfilling its God given calling inasmuch as it benefits the rest of creation while minimizing collateral damage.

The nature of the field calls for further nuance in its exposition in order to give it its own specific purpose in God's creation. A direct implication of this is that financial institutions ought to operate differently than businesses, in that their true purpose is serve as support to business activities, not guides to it; to put it in Quatro's (2008) terminology, a bank should not be run like a corporation. Two reasons for such distinction between the finance and business spheres are: (1) the products financial institutions sell have a very particular intangible nature, (2) all firms must engage in financial activities of some sort, making financial institutions' influence extremely pervasive. I propose here that if we are to understand finance as its own subsidiary sphere, we must be careful not to overstate its usefulness; as exposed above, excessive financialization seems to harm society, hence its purpose must be limited to being supportive to business endeavors. In other words, finance as an institution ought to exist only to provide businesses with

access to capital and a means to safely store funds. A profound implication of this model is that financial activities that do not provide clear and tangible benefits to society are at odds with the sphere's task. Thus, if Zingales' intuition is right –as it seems to be– and there is indeed no correlation between economic growth and the derivative market, we must seriously question whether finance is operating in accordance with its purpose. Then, once we've made up our minds, we must act on our conclusions in order to be agents of renewal (Mouw, 2011, p. 15).

2. Common Grace

We cannot ignore the possibility that finance may have no place in God's created order, however, a proper understanding of the field as an agent of common grace appropriately addresses such possibility. It seems clear that God has used financial markets to bestow His grace on all of His creation. The world has benefitted greatly from the development of financial instruments, which have provided corporations with the funds necessary to create new and better products, as well as given the opportunities for start-up companies to get up and running. Although the economic success generated by a strong banking sector is materialistic in nature, it is also true that such success provides image-bearers with the opportunity to work by creating jobs. Thus, if we can use the charging of interest as a proxy for finance, we may conclude that finance indirectly helps humans to fulfill the cultural mandate (Gen. 1:28). Thus we conclude finance to be at least *instrumentally* good, as it facilitates the pursuit of an *intrinsic* good, namely work. Moreover, another way in which finance acts as an agent of common grace is by making it possible for workers to engage in good stewardship by investing some of their current earnings on retirement accounts, and also for companies to "put their excess cash to work." Therefore,

even though finance has been affected by the fall like the rest of creation, as seen in the countless financial crises throughout history, the triune God still uses it for His redemptive purposes.

3. Hermeneutics

Furthermore, a proper understanding of the cultural context of God's command to abstain from the practice of charging of interest is of extreme relevance. The passages used in objection to charging interest (Deut 23:19-20, Lev. 25:27, Lk 6:35, Rm 13:8) explicitly condemn the condemn the financial practice as it relates to the poor, giving the idea that the true problem with the action is not the action itself, but rather the financial strain placed on the borrower. In fact, the Deuteronomy passage condones the charge of interest to foreigners, further strengthening this argument. The cultural context of the Old Testament is obviously quite different from current times, but two aspects that must be highlighted are:(1) the Israelite understanding of the nationstate, and (2) their understanding of one's obligation to his neighbor. The people of Israel under Mosaic Law were to behave much more like a family than an economy, as the sharing of resources was common practice. This is observed in the Israelite understanding of property as belonging to God, and not the individual (Lev 25:23). Thus, charging interest would be understood as a charge for the use of something that does not belong to the holder, making it clearly inappropriate.

Interestingly, the theocratic nature of Old Testament Israel seems to be an exception to the construct of spheres of sovereignty. The reason for such nuance is that in those days all of the lines were far more blurred, and Mosaic Law was the foundation for every aspect of life.

However, as God's economy (self-revelation) progressed, Israel's political system changed, adding complexity to the duties and responsibilities of all institutions and individuals, calling for

a construct such as Kuyper's spheres. Therefore, given the current cultural and economic contexts of the world, the charging of interest is a much more defensible practice.

4. Stewardship

A fourth biblical framework that is pertinent in the discussion of finance is stewardship. There are many degrees to which stewardship ought to influence how one engages in financial transactions. First, one must understand one's self as a steward of God's resources, after all He is the provider of all that we see and believe to own. This truth is made clear in the first verse of the twenty-fourth psalm which claims that "the earth is the Lord's, and everything in it." Therefore, individuals ought to see themselves as stewards of all of the following principal's resources: the state (the sovereign), their communities, their companies, and "their" shareholders.

Inherent to the nature of financial assets is the connection to the state, because monetary assets, as we understand them, are of no value if they are not backed by a currency backed by a sovereign. In America, for instance, financial assets are only valuable if the Federal Reserve honors the currency in which the claims are stated; to put it in the extreme, assets representing future dollar cash flows would be worthless if the Fed decided to switch from the dollar to another currency.² Furthermore, in a rather tangible sense, financiers are also stewards of their communities; their actions directly affect the resources of their neighbors through their retirement accounts, and also through the overall consumer sentiment/optimism. This point was clearly seen in the subprime mortgage crisis, which led to severe losses in retirement accounts, as well as triggering the beginning of a recession that led to substantial increases in unemployment. The negative impact on unemployment was even more noticeable in Ireland, where the levels went from below 6% to around 15%. It is worth mentioning, moreover that there is significant

overlap in the principles guiding the mechanics of stewardship and in those guiding Freeman's stakeholder theory. This is so because both seem to take a utilitarian approach to the managing of funds, seeking to maximize the benefit to most of creation.

This doctrine is even more relevant in the discussion of financialization because of the phenomena's long-run implications to individual firms. Liang (2011) made this point very clear when he exposed the flaws of the SVM movement's obsession with short term returns. He calls SVM "incompatible with the creation of true prosperity in the long run." He goes even further when he claims that the "decoupling of gain from value creation [represented by SVM] violates a fundamental trust in stewardship, which is to serve the best interest of the owner or principle" (Liang, 2011, p. 200). The parallel between corporate executives and the story of Joseph (Gen. 37-47), as made evident by Liang, is uncanny. Joseph is praised for his long-term mindset, and he is greatly rewarded for it; furthermore, it is precisely this that made him a great steward. Therefore, as stewards of shareholder's capital, executives ought to resist the lure of the self-defeating short term gains, and focus instead on long-run returns.

III. wikiHow: Finance

With the backdrop of finance's purpose in God's kingdom, we ought to talk about the manner in which the industry can better fulfill its calling. This section will propose two constructs as the solution for the downfalls of the current practices in the world of finance.

1. Finance as Normal: The New Business as Usual

In the same manner that a proper understanding of the purpose of finance was essential for the establishment of its place in the greater sphere of business, a proper understanding of the *nature* of the field is essential for the proper functioning of financial markets. Practitioners and

academics have treated finance, and also economics as a whole, as positive subjects failing to acknowledge the profound normative nature of the fields. As exposed in the discussion of the central goal of the firm, corporate America has been, by and large, working under three Friedmanite assumptions: (1) shareholder wealth maximization is the goal of the firm (2) and such goal is ethical, and (3) ethics work as a constraint on the maximization of profits. Dobson (1993) addresses the logical and empirical shortcomings of all three of these assumptions. With regard to the first assumption, he argues that the maximization of profits cannot be the ethical base for a value system because such a materialistic system "encourages us to cheat, lie, steal, and the like" (58), which to be clear are normally considered unethical. Moreover, he identifies the "essence of the wealth-maximization rubric," which reveals the underlying problem with the system (59). The Friedmanite system holds external goods, which at best have instrumental value, as the central goal of the firm, as opposed to *internal goods*, which have intrinsic value. According to Dobson's logic, this dynamic makes the system inherently unethical. Regarding the second assumption, he argues that ethics cannot serve as a "constraint on achieving some materialistic end" because such mechanics would be "illogical and ambiguous." He believes it to be illogical because it "may actually sanction unethical behavior if such behavior can be shown to led to material gain," and ambiguous because "ethics has generally been viewed as a behavioral motivation, not as a constraint" (57 Italics added).

I believe that Dobson is right, and that a shift from valuing external goods as ethical basis is the sine qua non condition for the proper unfolding of finance. Firms will only use financial assets properly when their goals in engaging in financial transactions becomes the achievement of virtuous objectives, which have intrinsic worth. Examples of virtuous objectives are excelling

in competition, benefiting society (not necessarily through charity, but rather by doing good business), or providing goods or services to meet needs. Firms will only become responsible when the individuals running them develop an understanding that they ought to abide by rules of ethics, not because of social constraints, but rather because such motivation is right and intrinsically good. Ironically enough, genuine "perfect virtue" is essential for the proper functioning of markets (as claimed by Adam Smith and addressed in the following section); meaning that virtuous behavior ought to lead to higher returns in the long run. Thus, although it is impossible to theoretically prove that perfect ethical behavior by all financiers would prevent the occurrence of all future financial crises (because of the nature of economics and the reality of the fall) it is self-evident that it would at least have prevented the sub-prime mortgage fiasco.

2. Crossroads: Where Finance Meets Proverbs

It should come as no surprise to Christians, while simultaneously as shocking news to non-Christians, that market efficiency relies heavily on Christian virtues for their proper functioning. Logue (1996) discusses this topic in great depth, focusing on the virtues of trust, integrity, and honor. He argues that "trust would act as a costless contractual enforcement," which would enable "first-best outcomes" because of the elimination of agency costs, which are a deadweight loss (48). The commodities market, Logue adds, "works on the honor system," making integrity essential. Thus, besides the deontological basis for his argument, he highlights that "enthusiastic cooperation rather than grudging compliance by firms can reduce these [unnecessary deadweight] costs once regulations are in place" (Logue, 1996, 46). The conclusion then is clear: if individuals behave in a genuine, non-pragmatic manner that is consistent with the Biblical virtues, they will be working to facilitate market efficiency by ridding the marketplace

of the very blemishes that are responsible for the bureaucracies that foster market inefficiencies. In this light, Adam Smith's invisible hand resembles God's austere correction of his people.

The necessity of Christian virtues is just as great in the financial market as it is in the market for goods and services. The financial nature of the assets being traded demands a great degree of trust for transactions to take place; one would not place one's money on another's hands if one did not *trust* that the other would return the funds with interest. Lenders would not engage with borrowers if they believed the latter to be *dishonest* about their current financial position. Investors would not provide capital to firms that lack *integrity*, because they are aware of the dangers of unethical behavior (i.e. Enron, WorldCom). Though unachievable, pushing the practice of Christian virtues to the extreme, and thus to perfection, would mean that there would be no use for institutions such as the SEC, or for regulations such as the SOX and Dodd-Frank. This look at an extreme scenario should make clear how the adoption of Christian virtues would behoove all market participants.

Conclusively, it is essential to note that these two remedial constructs, if implemented, not only would eradicate the inefficiencies in financial markets, but they also would provide the needed focus on inherent value as well as function as catalysts of efficiency in the markets. In the same fashion that, in times of low inflation, investors tend to become less risk-averse, in a market where there is trust among the participants, investors would engage in more substantive transactions(as well as less in speculative ones). These substantive transactions, then, would be secured by the high standard of ethics of the participants in the markets. Meanwhile, the ethics focused mindset, undergirded with the aim of intrinsic good, would be guiding this whole process through the individual participants. This is how these individual participants, then,

guided by the Sovereign God and driven by their ethical motivations, would be able to appropriately and effectively engage in financial transactions.

Recommendations for Business Practice

Ambitious though it may be, my heart burns with a desire to change the way Corporate

America operates by making it more aware of its ethical responsibilities and of the benefits of

moral behavior. It would be optimistic in my part, or in anyone's really, to believe that

corporations at large would stop worrying about Wall Street, and start worrying about themselves

and how they want to do business. However likely the full paradigm shift proposed may be, it is

necessary for corporations to start moving in that direction, which will only happen if someone

starts (and continues) making a push. Sadly, it seems that business education and market

valuation have contributed to a problematic system in an irreversible manner. CEOs are trained

to manage the bottom line and to take advantage of financial engineering, without incentive to do

otherwise. Executive compensation has increasingly been made up of myopic stock options;

thus, executives will do as any neoclassical economic agent would, they will maximize stock

prices in order to benefit themselves.

My ambitious recommendations involve a Pauline repentance of the whole system. I believe that the market needs to change the way it values companies' stocks, while business schools need to teach their students proper management. There is something deeply troubling about the fact that the most common models by which stocks are valued (dividend discount models) weigh short-term cash-flows much heavier than they do long-term ones. The real problem is that such valuation directly affects operations by the incentives given to managers through equity-based compensation. One way to prevent such distorted focus is to measure and

reward management and executive performance on the basis of tangible success rather than on the basis of market perception. There should also be more controls over shareholder influence, since shareholders are the least involved stakeholders; although it is true that shareholders provide the firm with their capital, it is more important to be aware that employees give their lives to the firm by exchanging their time for money. Thus, the impact on employees and society should be at the heart of the measure for executive compensation, not the market.

Furthermore, business schools must address the issue by designing courses on finance ethics in order to teach students how to take advantage of the financial market sustainably. Finance has fallen prey to the temptation of most areas of study and practice: individuals have failed to evaluate the field normatively, and have treated it as a positive subject. As seen by recent events, the world can no longer afford to do so. The gargantuan effects of the 2008 crisis cannot be ignored as if they were natural. The crisis was a consequence of reckless behavior by extremely powerful organizations in an inefficiently and inappropriately regulated sector. Financiers must be educated to think about their responsibility to society. They must learn that it is immoral to sell products that are, or may be, detrimental to their buyers. Therefore, an implicit assumption is that business schools ought to explicitly teach students the full costs and benefits of their financial market making, including social costs and benefits, thus stimulating activities beneficial to society. As is, the system puts financiers at odds with society, as seen by the corrosive effects of such an overpowered system. And the best way to change the system is to change the values of its individual members.

Practitioners, like the rest of creation, ought to look to the Bible for guidance. As we have seen, the Bible is a great resource for teachings on virtues that are pertinent to market efficiency.

Therefore, practitioners ought to make use of such virtues and not discard them because of taboos or skepticism surrounding religiosity.

Lastly, companies need to remember, or be reminded of, what they are really created for. Businesses are started to meet needs in the market, to meet demand with supply. Whether one's ultimate goal in starting a business is to maximize profits or not, it does not matter. A company will only be profitable inasmuch as it meets the needs of the market; as soon as it stops doing so, the *invisible hand* will come and sweep them out. Therefore, companies need to rearrange the order by which they prioritize stakeholders, for if society is no longer served by the company, shareholders will starve. As it relates to our conversation, if unnecessary financialization stands in the way of long run growth, or of current stability, then companies need to be very careful of the extent of their participation in the financial sector. Implicitly, companies need to remember that, in the grand scheme of things, they are agents of society, and they are designed for, and dependent upon, the well being of society at large. That means that companies are accountable to the individuals whom they benefit or damage. With that in mind, and aware of the volatility of the financial markets, companies should be hesitant in putting their eggs in the proverbial basket of finance.

Recommendations For Further Research

One of the difficulties with exploring the subject of financialization is the lack of uniformity in the definition of the term. Part of what led to seemingly conflicting results in the research of Stockhammer and Kliman was the fact that they were measuring different variables and treating them as proxies to the same phenomena. Thus, I believe there would be major

benefits from a standardization of nomenclatures by an organization such as the American Finance Association.

Moreover, another difficulty is interpreting the data. Although this responsibility understandably falls under the reader's jurisdiction, it would be helpful to practitioners if they were able to understand what the results of the heavy and dense research mean. Such understanding would hopefully guide future practice.

Lastly, I think that it would be beneficial if finance academics came up with a different model for valuing stock prices. Seen that the one of the most common models, namely every dividend discount models, value short term returns more than it does long term ones, a different model would create a whole different system of incentives that would ideally lead to a greater focus on the long run well being of the company. I understand the difficulties of quantifying goals that often are non-numerical, as often is the case in alternative measures of performance, but I believe that such change quantification would lead to a change in goals that would be positive to all stakeholders.

Endnotes

- 1. For this argument's purpose this shall suffice, but Felix Martin's *Money* (2015) provides a deeper exposition of this reality.
- 2. See Quatro 2012, Corbett and Fikkert 2009, and Belcher 2016 for a fuller discussion of the two approaches to Sphere of Sovereignty as it relates to the central (and peripheral) purposes of business.

References

- Belcher, L. J. (2016). "Poverty and Aid to the Poor: Scripture, Kuyper's Sphere Sovereignty and Entitlement Spending". *Journal of Biblical Integration in Business*, Spring 2016. Web. 29 Jan. 2017
- Bernstein, S. (2015). *Does Going Public Affect Innovation?* Journal Of Finance, 70(4). Web. 4 Nov. 2016.
- Cecchetti, S.G., and Kharroubi, E. (2012) *Reassessing the Impact of Finance on Growth*. Basle: Bank for International Settlements Monetary and Economic Department. *Www.bis.org*. Bank For International Settlements, 1 July 2012. Web. 4 Nov. 2016. www.bis.org.
- Cournède, B. and O. Denk (2015), "Finance and economic growth in OECD and G20 countries". *OECD Economics Department Working Papers*, No. 1223, OECD Publishing, Paris. Web. 4 Nov. 2016.
- Fiebiger, B. (2016). Rethinking the Financialisation of Non-Financial Corporations: A Reappraisal of US Empirical Data. *Review Of Political Economy*, 28(3). Web. 4 Nov. 2016.
- Freeman, E. R. (1984). Strategic management: A stakeholder approach. Massachusetts: Pitman
- Friedman, M. (1970). The social responsibility of business is to increase its profits. *New York Times Magazine*.
- Foroohar, R. *Makers and Takers: The Rise of Finance and the Fall of American Business*. New York: Crown Business, 2016. Print.
- Gordon, J. S. (1976). "Sphere Sovereignty in Calvin and the Calvinist Tradition," in Holwerda, D. E., ed. *Exploring the Heritage of John Calvin*. Grand Rapids. Print.
- Henry, C. (1955). "Christianity and the economic crisis". *Vital Speeches of the Day,* 21(14), 1243-1248. Web. 29 Jan. 2017.
- Liang, E. P. (2011). "The Global Financial Crises: Biblical Perspectives on Corporate Finance". *Journal of Biblical Integration in Business*, Spring 2011. Web. 29 Jan. 2017.
- Lin, K. (2016). The Rise of Finance and Firm Employment Dynamics. *Organization Science*, *27*(4). Web. 4 Nov. 2016.
- Logue, N. C. (1996). "Christian Virtues and Finance". *Journal of Biblical Integration in Business*, Spring 1996. Web. 29 Jan. 2017.

- Martin, F. (2014) Money: The Unauthorised Biography. New York: Alfred A. Knopf, 2014. Print.
- Mouw, R. J. (2011). *Abraham Kuyper: A short and personal introduction*. Grand Rapids, Mich: William B. Eerdmans Pub.
- Porter, B. (1999). "Charging Interest: Is It Biblical? A Response" *Journal of Biblical Integration in Business*, Fall 1999. Web. 29 Jan. 2017.
- Quatro, S.A. (2008) "Profit Matters!: Christian Religiosity as Support for Milton Friedman's Provocative Claim", in Quatro, S.A., and Sims, R. (editors) Executive Ethics: Ethical Dilemmas and Challenges for the C-Suite. Information Age Publishing: Greenwich, CT. Web. 29 Jan. 2017
- Quatro, S.A. (2012) "Is Business as Mission (BAM) a Flawed Concept? A Reformed Christian Response to the BAM Movement". *Journal of Biblical Integration in Business*, 14 (1). Web. 29 Jan. 2017
- Quatro, S.A. (2016) "Profits!" in Quatro, S.A., and Sims, R. (editors) Executive Ethics II: Ethical Dilemmas and Challenges for the C-Suite. Information Age Publishing: Greenwich, CT. Web. 29 Jan. 2017
- Raza, H., Gudmundsson, B., Zoega, G., & Kinsella, S. (2016). "Two thorns of experience: financialisation in Iceland and Ireland". *International Review Of Applied Economics*, 30(6). Web. 4 Nov. 2016.
- Yang, J. L. (2016) "Maximizing Shareholder Value: The Goal That Changed Corporate America." *The Washington Post.* WP Company, 26 Aug. 2013. Web. 11 Dec. 2016.
- Wescher. L. R. (2008) "Global Stakes Globalization's Challenges and Opportunities for Stockholder Theory" in Quatro, S.A., and Sims, R. (editors) *Executive Ethics: Ethical Dilemmas and Challenges for the C-Suite*. Information Age Publishing: Greenwich, CT. Web. 29 Jan. 2017
- Zingales, L. (2015). Presidential Address: Does Finance Benefit Society?. Journal Of Finance, 70(4). Web. 4 Nov. 2016.