Recessions, depressions and recoveries

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INTRODUCTION

This paper argues that there is a distinction between economic recessions and depressions and this distinction helps to explain why economic recovery can be weaker and take longer. It will attempt to define more accurately the difference between a ‘normal’ economic recession that capitalism experiences at regular and recurring intervals and a depression where a normal recovery to previous or higher trend growth does not occur and what called been called stagnation ensues for a decade or more. On this definition, there have been only three such depressions in capitalist economies in the last 150 years, 1873-93; 1929-42 and 2008 onwards.

The paper argues that depressions are caused by the failure of business investment to recover to previous levels of growth, as they normally do in recessions. It proposes that weak business investment growth is a product of the level of and growth in the profitability of capital in an economy as well as the size and growth in the level of private sector debt. A combination of low profitability and or slowing or negative profitability growth combine high levels of debt will keep business investment below pre-crisis trend growth and thus perpetuate a depression.

This proposition is based on Marx’s law of the tendency of the rate of profit to fall and his analysis of debt as fictitious capital. This Marxist view is counterposed to that of mainstream economics that consider crises as just a temporary shock to the growth process or caused by a liquidity trap in the financial sector or a lack of demand, in particular, a lack of consumer demand. Further it considers the argument that the weak recovery or stagnation is related to government policies, in particular, fiscal austerity. It finds little evidence that fiscal austerity is the cause of the current depression, either in the US, Europe or Japan. It offers an alternative to the efficacy of the Keynesian multiplier (government spending as a driver of economic growth) as a guide, namely the Marxist multiplier (profitability as the driver of growth).

The paper offers empirical evidence on the nature of the current depression since 2008, that is it is based on weak business investment, not consumption. And weak business investment results from high debt and low profitability.
Section 1 deals with the definition of a depression as opposed to ‘normal’ recessions. Section 2 considers the nature of the current Long Depression and argues that it is the level and changes in business investment, not household consumption or residential investment as the central cause of depressions. Section 3 links the movements in business investment to the movements in the profitability of business capital and debt. Section 4 considers the argument that the depression or weak recovery since 2009 has been caused by the policies of austerity and finds the Keynesian multiplier a weaker explanation than the Marxist multiplier. Section 5 provides some suggested indicators for the future outcome of this current depression, namely the movement of corporate profits and debt levels.

**Section 1: Recessions and depressions**

Recessions are common; depressions are rare. This paper argues that there is a distinction between economic recessions and depressions and this distinction helps to explain why economic recovery can be weaker and take longer.

A depression is defined here as when economies are growing at well below their previous rate of output (in total and per capita) and below their long-term average. It is also means that levels of employment and investment are well below those peaks and below long-term averages. Above all, it means that the profitability of the capitalist sectors in economies remain, by and large, lower than levels before the start of the depression.

To date, there have been three depressions (as opposed to regular and recurring economic slumps or recessions) in modern capitalism. The first was in the late nineteenth century (1873–97); the second was in the mid twentieth century (1929–39); and now we have one in the early twenty-first century (2008–?). These all started with significant slumps (1873-6; 1929-32; and 2008-9).

Most important, depressions (as opposed to recessions) appear when there is a conjunction of downward phases in cycles of capitalism. Every depression has come when the cycle in clusters of innovation have matured and have become “saturated”; when world production and commodity prices enter a downward phase, namely, that inflation is slowing and turns into deflation; when the cycle of construction and infrastructure investment has slumped; and above all, when the cycle of profitability is in its downward phase. The conjunction of these different cycles only happens every sixty to seventy years.

A long depression is the best term to use to describe the period through which capitalism is now passing. The Long Depression will be ended by a conjunction of economic outcomes (slump, technological revolution, and a change of economic cycle) or by political action to end or replace the capitalist mode of production. There is no permanent crisis. There is always resolution and new contradictions in the dialectics of history. So the Long Depression will end more like the nineteenth-century depression of 1880–90s ended—with a new upswing in capitalism and globalization.

The nineteenth-century depression ended in the late 1880s and 1890s in the United Kingdom, the United States, and Germany. That is also what happened from 1942 onwards in the
United States, Europe, and Japan. Eventually this Long Depression will end. The current
Long Depression still has another stage to go before it will come to an end. We are not there
yet—we are still in a period of depression (an economic “winter”) that could last another few
years or so.

A depression has been defined by mainstream economics in two ways. The first is a rather
formal rigid standard, namely, that an economy experiences a decline in real GDP that
exceeds 10 percent, or suffers a decline that lasts more than three years. Both the late
nineteenth-century depression and the Great Depression of the 1930s qualify on both counts,
with a fall in real GDP of around 30 percent between 1929 and 1933. Output also fell 13
percent in 1937–38.

Second, it is argued that the difference between a recession and a depression is more than
simply one of size or duration. The nature of the downturn matters as well. In the Great
Depression, average prices in the United States fell by one-quarter and nominal GDP ended
up shrinking by almost half. The worst US recessions before World War II were all
associated with banking crises and falling prices. In both 1893–94 and 1907–8 real GDP
dropped by almost 10 percent; in 1919–21, it fell by 13 percent.

Neither of these definitions does justice to the reality of a depression. A more specific
benchmark would be where an economy suffers a major contraction and any recovery is so
weak that the trend growth path afterward is never reattained or at least takes several years or
even a decade or more.

Think of it schematically (Figure 1). A recession and the ensuing recovery can be V-shaped,
as typically in 1974–75; or maybe U-shaped; or even W-shaped as in the double-dip
recession of 1980–82. But a depression is really more like a square root sign, which starts
with a trend growth rate, drops in the initial deep slump, then makes what looks like a V-
shaped recovery, but then levels off on a line that is below the previous trend line. In a
depression, pre-crisis trend growth is not restored for up to ten to fifteen or even twenty
years.

Figure 1. Schematic representations of GDP growth and investment

![Diagram showing recession, Great Depression, and Long Depression](image-url)
With this definition, the Great Depression of the 1930s qualifies as a depression. Although the initial slump from 1929 to 1932 was the deepest in capitalist history so far, it was not the longest-lasting at forty-three months. The initial recession in the first long depression of the late nineteenth century was much longer at sixty-five months from 1873 to 1879. Recovery back to the trend growth rate in the United States was not achieved until 1940 and not until the 1890s in the earlier depression. In the current Long Depression, the actual initial slump, the Great Recession, lasted only eighteen months, although this was the longest in the postwar period. Trend growth has not been achieved some eight years (ninety-six months) after the start of the Great Recession. So in that sense, it is a depression.

This time the recovery is not V-shaped or even L-shaped (as in Japan in the 1990s) but more like a square root sign. Instead of 3-4 percent a year, output in the major economies has been closer to 1–2 percent a year. The slowdown has spread to the so-called emerging economies, too; growth is now closer to 4 percent a year than the previous 7–8 percent.

This picture of developments in the major capitalist economies since 2009 has increasingly gained traction even among mainstream economists. For example, Brad DeLong noticed that the US: “did not experience a rapid V-shaped recovery carrying it back to the previous growth trend of potential output”. DeLong explains: “A year and a half ago, when some of us were expecting a return to whatever the path of potential output was by 2017, our guess was that the Great Recession would wind up costing the North Atlantic in lost production about 80 percent of one year’s output—call it $13 trillion. Today a five-year return to whatever the new normal might be looks optimistic—and even that scenario carries us to $20 trillion. And a pessimistic scenario of five years that have been like 2012-2014 plus then five years of recovery would get us to a total lost-wealth cost of $35 trillion. DeLong concludes that “at some point we will have to stop calling this thing ‘The Great Recession’ and start calling it ‘The Greater Depression’”.

The permanent loss in output is revealed in Figure 2, showing the failure to return to pre-crisis trend growth.

Figure 2: Real GDP per capita in the United States with an exponential regression trendline. Current GDP is at 1.48 percent above the 2007 peak and 9.8 percent below the trendline. Recessions are highlighted in grey.

Source: Datastream, author’s calculations
The US Congressional Budget Office (CBO) reckons that US real GDP will never return to its pre-Great Recession growth path. US real GDP will permanently be 7.2 percent below the pre-Great Recession growth path because trend real GDP continued to rise during the recession. They call this a “purely permanent recession”. David Papell and Ruxandra Prodan at the University of Houston find that deep recessions after a financial crash can take up to nine years before growth returns to trend. But this time it is different—it’s even worse.\(^5\)

The IMF also argues that the “potential output” of the world economy is growing more slowly than before. Christine Lagarde, head of the IMF, described the world’s current economic performance as “just not good enough”.

According to the latest Brookings Institute-Financial Times tracking index, the global economy is mired in a “stop and go” recovery “at risk of stalling again”. This “Tiger index” shows measures of real activity, financial markets and investor confidence compared with their historic averages in the global economy and within each country. The Tiger index graph for global growth looks pretty much like the “square root” trajectory that is presented in Section One as a schematic example of a depression (Figure 3).\(^5\)

**Figure 3: Real economic activity**

Source: Brookings Institute Tiger index
Another feature of depressions is a significant slowing of world trade growth. Global trade is poised for at least two more years of disappointing growth, according to the WTO (figure 4). It’s bad news whenever trade grows more slowly than GDP because it means the economies either cannot get out of a depression by exporting as external demand is even weaker than domestic demand.

Trade expansion is set to remain well below the annual average of 5.1 percent posted since 1990. The modest gains in 2014 marked the third consecutive year in which trade grew less than 3 percent. Trade growth averaged just 2.4 percent between 2012 and 2014, the slowest rate on record for a three-year period when trade was expanding (i.e. excluding years like 1975 and 2009 when world trade actually declined).

**Figure 4: Global trade volumes (index 2008=100)**

Source: World Bank

Another indicator is employment growth. While global unemployment is finally back to levels seen before the global financial crisis, global employment is growing at just 1.5 percent a year, far slower than the 2.0 to 2.5 percent growth rate seen before the crisis. The unemployment rate in advanced economies stood at 7.4 percent in 2014, far higher than the 5.7 percent seen in 2007 (Figure 5).

**Figure 5: Unemployment rates in OECD and non-OECD countries (percentage)**

Sources: IMF, ILO, EIU
Section 2. The current long depression

This paper argues that the main cause of the global crawl is weak investment growth. The collapse in the housing bubble in many advanced economies from 2007 was one reason for the drop in private sector investment. But the collapse in business investment was much greater and long lasting. The IMF estimates that business investment in the advanced economies was 13 percent lower in from 2008 to 2014 than it expected back in spring 2007 before the Great Recession. For the United States, the gap was even bigger at 16 percent and 18 percent for Japan. The investment recovery in the US has been the weakest of all post-1945 recessions (Figure 6).

Figure 6: US real business investment, change since recession began

The Bank for International Settlements (BIS) argued that the Great Recession and the subsequent weak and slow recovery in the major economies was a product of the collapse in business investment. As the BIS put it: “Business investment is not just a key determinant of long-term growth, but also a highly cyclical component of aggregate demand. It is therefore a major contributor to business cycle fluctuations. This has been in evidence over the past decade. The collapse in investment in 2008 accounted for a large part of the contraction in aggregate demand that led many advanced economies to experience their worst recession in decades. Across advanced economies, private non-residential investment fell by 10-25 percent.”

Net business investment—after deducting the depreciation of existing stock—is still nearly one-third below the pre-crisis peak. Net investment in structures is more than half below the previous peak, and down nearly 20 percent in equipment. Even net software investment is still 12 percent down.
A fall in consumption does not take place before slumps, so the house of cards did not collapse because of a fall in consumer demand. It is a fall in investment that provokes a slump and, during a slump, it is investment not consumption that falls the most (Figure 7).

Figure 7. Percentage change in US investment and consumption one year prior to the beginning of a recession.

Of six post-1945 recessions in the US, five out of six show a fall in investment one year prior to the beginning of the recession of between 4-12%. Only two show a fall in consumption one year prior to the recession and then no more than 1%. The severest recessions show the largest falls in investment.

Section 3. Why weak investment? It’s profitability!

Why is investment lagging? There are various explanations from mainstream economics. The debate increasingly revolves around the resurrected concept of ‘secular stagnation’. In none of these mainstream explanations of the Long Depression is there a mention of what is happening to the profitability of capital, although the dominant mode of production in the world economy is one of production for profit.

The Marxist theory of crisis argues that there is a tendency for the rate of profit to fall over time as capitalism expands and capital accumulates. This tendency can be counteracted for periods of time by higher rates of exploitation of labour and by faster innovation. But the tendency will eventually apply in lowering profitability. This law of the tendency of the rate of profit to fall, Marx reckoned, was the most important law of political economy. It was both a secular tendency and showed that capitalism was a transitory mode of production in human social organisation with a use-by date. It also generated cyclical fluctuations in output and
employment, so that capitalist production was not harmonious but punctuated by violent slumps.

If we look at the movement of the rate of the profit in the major economies over the last 150 years since capitalism has been the dominant mode of production globally, the reason for the current Long Depression becomes clearer. Figure 8 (the simple mean average world rate of profit from the work of Esteban Maito, as interpreted by me) shows that global profitability is in a downphase, similar to the fall in profitability experienced between 1870 to the end of the 19th century and the Great Depression of the 1930s.9

Figure 8: World rate of profit, simple mean (percentage)

Source: Maito, 2014, adapted by author

In the most important capitalist economy, the US, the rate of profit has been in secular decline since the end of the Second World War. There was a “golden age” from 1946 to 1965, when profitability held up, but then there was a period of sharply falling profitability (the crisis period) from 1965 to 1980-2. From 1982 to 1997 there was a revival in profitability in the neoliberal period, if you like. From 1997 the US rate of profit entered a downward phase. Since the end of the Great Recession profitability revived from lows in 2009 but is still below the level reached in 1997 (Figure 9).

Figure 9. The US rate of profit (%), 1982-2012
Marx’s law of the tendency of the rate of profit to fall is just that: the rate of profit in a capitalist economy will tend to fall over time. But there are periods when counteracting factors come into play, so the tendency to fall does not materialise in an actual fall for a period of time. Thus you can get a profit cycle of falling profitability followed by a period of rising profitability and then a new fall, all within a secular process of decline.

Marx’s law says that the rate of profit will fall because there will be a rising organic composition of capital (the value of constant capital, machinery, plant and raw materials, will rise faster than variable capital, wages and benefits paid to the employed workforce). The US data confirm that. There is a strong inverse correlation (-0.67) between the organic composition of capital and the rate of profit. The organic composition of capital rose 20 percent from 1946 to 2014 and the rate of profit fell 20 percent. In the period when profitability rose, from 1982 to 1997, counteracting factors came into play, in particular a rising rate of exploitation (surplus value) and a cheapening of the value of constant capital leading to a fall in the organic composition. In that period, the rate of surplus value rose 13 percent and the organic composition of capital fell 16 percent. The rise in the rate of profit from 1980 to 2014 was two thirds due to a rise in exploitation of labour during the neoliberal period and only one third due to cheaper technology. Again this supports Marx’s law.

Marx argued that slumps in capitalist production came about when profitability fell to such a level that the cost of new investment in labour and technology rose more than the profits gained, so that the mass of profit began to fall. Once that started to happen, the weakest companies began to make huge losses and so laid off labour and stopped investing. This downturn in employment and investment then cascaded through an economy, generating an overall crisis in production. Then any debt liabilities that had been racked up in order to invest, or to speculate in the stock market or in real estate to boost profitability, could not be
paid and the profit crisis would trigger a financial crisis. In turn, this financial crisis would bring about an even greater fall in investment and production.

This Marxist explanation differs from the Keynesian one. The latter supposes that investment is autonomous and responds basically to relative “confidence” in the prospects of businesses, to “animal spirits”, so that present profits are determined by current investment and investment in the recent past. The Marxist view is that investment depends on profitability, so that movements in investment respond to previous movements in profits.

Not every depression is the same: each has its own characteristics. The distinctive feature of the current depression is the role of excessive credit or debt from the 1980s onwards (Figure 10). Since the financial crisis struck in 2008 the world has become more leveraged; total public and private debt reached 272 percent of developed-world GDP in 2013. The world economy has never been so awash with debt. Global debt has increased by $57 trillion since 2007 to almost $200 trillion—far outpacing GDP growth. As a share of world GDP, debt has risen from 270 percent to 286 percent, despite the cleansing of the Great Recession.

Figure 10. US corporate debt to net worth (%)

Overall, almost half of the increase in global debt since 2007 was in developing economies, but a third was the result of higher government debt levels in advanced economies. Households have also increased debt levels across economies—the most notable exceptions being crisis-hit countries such as Ireland and the US. China’s total debt, including the financial sector, has nearly quadrupled since 2007 to the equivalent of 282 percent of GDP.

This growth of credit and fictitious capital (as Marx called speculative investment in stocks, bonds, and other forms of money assets) picks up precisely to compensate for the downward pressure on profitability in the accumulation of real capital.

A fall in the rate of profit promotes speculation. If the capitalists cannot make enough profit producing commodities, they will try making money betting on the stock exchange or buying various other financial instruments. Capitalists experience the falling rate of profit almost
simultaneously, so they start to buy these stocks and assets at the same time, driving prices up. But when stock and other financial asset prices are rising everybody wants to buy them—this is the beginning of the bubble.

If, for example, the speculation takes place in housing, this creates an option for workers to loan and spend more than they earn (more than the capitalists have laid out as variable capital), and in this way the “realization problem” is solved. Sooner or later, bubbles burst when investors find that the assets are not worth what they are paying for them. The “realization problem” reoccurs in an expanded form compared with before the bubble. The speculative bubble explodes because both wages and profits in the productive sectors fall dramatically in the crisis years. Now the workers have to pay back their loans, with interest, so they have to spend less than they earn. The result is even greater overproduction than was avoided temporarily in the first place.

The basic problem is still the falling rate of profit, which depresses investment demand. If the underlying economy were healthy, an imploding bubble need not cause a crisis, or at least only a short one. When workers and capitalists pay interest on their loans, this money does not just disappear. If the total economy is healthy and the rate of profit is high, then the revenue generated from interest payments will be reinvested in production in some way.

An artificial and temporary inflation of profits in unproductive sectors of a capitalist economy (like finance) can help sustain the capitalist economy and compensate for a falling rate of profit in productive sectors. Then in a crisis, an increasing share of debtors who cannot finance their debt eventually causes default and the crisis erupts in the financial sector.12

Marx’s law shows that the capitalist system does not just suffer from a “technical malfunction” in its financial sector but has inherent contradictions in the production sector, namely, the barrier to growth caused by capital itself.

There were five recessions or slumps after 1963: 1974–75, 1980–82, 1990–92, 2001, and 2008–9. In each case, the US rate of profit peaked at least one year before and on most occasions up to three years before. On each occasion (with the exception of the very mild 2001 recession), a fall in the mass of profit led or coincided with a slump. This is shown clearly for the Great Recession. There was rise in the rate of profit and the mass of profits from 2002 to 2006. But profitability was still in a downward cycle from 1997 and the rate and the mass of profits did start to fall from 2006 onward.

JP Morgan shows that global corporate profitability fell from near 9 percent before the Great Recession to under 4 percent in the trough of 2009 before recovering to 8 percent in 2011. But in 2012, it declined again to 7 percent, 13 percent below its peak in February 2008 when the Great Recession began.

The UN also noted a failure in the recovery of returns on corporate investment globally.13 Profitability on investment in productive sectors of the world in 2011 was some 20 percent below where it was before the global financial crash and the Great Recession for the advanced capitalist economies, and 15 percent down for the world as a whole.
The EU Commission noted that nonresidential investment (which excludes households buying houses) as a share of GDP “stands at its lowest level since the mid-1990s.” The main reason: “a reduced level of profitability.” The report makes the key point that “measures of corporate profits tend to be closely correlated with investment growth” and only companies that don’t need to borrow and are cash-rich can invest—and even they are reluctant. The Commission found that Europe’s profitability “has stayed below pre-crisis levels.”

The BIS believes that “the uncertainty about the economic outlook and expected profits play a key role in driving investment, while the effect of financing conditions is apparently small.” The bank dismisses the consensus idea that the cause of low growth and poor investment is the lack of cheap financing from banks or the lack of central bank injections of credit.

Instead, the BIS looks for what it calls a “seemingly more plausible explanation for slow growth in capital formation,” namely, “a lack of profitable investment opportunities.” According to them, companies are finding that the returns from expanding their capital stock “won’t exceed the risk-adjusted cost of capital or the returns they may get from more liquid financial assets.” So they won’t commit the bulk of their profits into tangible productive investment. “Even if they are relatively confident about future demand conditions, firms may be reluctant to invest if they believe that the returns on additional capital will be low.”15

Ironically, the BIS figures that whereas investment in the stock market was more profitable for companies than investing in productive assets in the period before the Great Recession, the reverse is the case now. The profitability of capital stock has not risen; it’s just that the stock market is now so expensive that the likely return against stock prices has fallen. Returns on bonds have slumped.

The profitability of capital has to be high enough to justify riskier high-tech investment and cover a much higher debt burden (even if current servicing costs are low). If it is the case that the reason for the continuing Long Depression in the major economies (defined as below-trend growth and below-trend investment) is low profitability and excessive debt, then the situation does not look set to improve.

In the United States, the total level of profits has surpassed the previous pre-crisis peak, but not the rate of profit. In many other advanced capitalist economies, even the mass of profit has not reached the previous peak.

A slump under capitalism begins with a collapse in capitalist investment. The movement in investment is initially driven by movements in profit, not vice versa.16 In the period leading up to the Great Recession, profits fell for several quarters before the US economy went into a nose dive. US corporate profits peaked in early 2006 (that’s the absolute amount, not the rate of profit, which peaked earlier). From its peak in early 2006, the mass of profits fell until mid-2008, made a limited recovery in early 2009, and then fell to a new low in mid-2009. After that, the recovery in profits began and the previous peak in nominal dollars was surpassed in mid-2010 (Figure 11).
What was the reaction of investment to this movement in US profits? When US corporate profit growth started to slow in mid-2005 and then fell in absolute terms in 2006, corporate investment went on growing for a while as companies used up reserves or increased borrowing in the hope that profits would be restored. When that did not happen, investment growth slowed during 2007 and then fell absolutely in 2008, at one point falling at a nearly 20 percent year-on-year rate.

Profits started to recover at the end of 2008, but investment did not follow for a year. It was the same for GDP—it peaked well after profits did and recovered after profits did. The movement of profits leads the movement of investment, not vice versa. Profits were falling well before the credit crunch began. So Marx’s law provides an explanation of the crisis of 2001–2, the subsequent recovery of 2002–6, the great 2007–9 slump, and the subsequent recovery.

US corporate profits were falling some two years before the recession began, and investment dropped as a result before GDP contracted. In the recovery, again it was profits that led investment and GDP upwards.

These conclusions are confirmed by other authors. For example, Tapia Granados found that: “data from 251 quarters of the US economy show that recessions are preceded by declines in profits. Profits stop growing and start falling four or five quarters before a recession. They
strongly recover immediately after the recession. Since investment is to a large extent
determined by profitability and investment is a major component of demand, the fall in
profits leading to a fall in investment, in turn leading to a fall in demand, seems to be a basic
mechanism in the causation of recessions”. 17

Camara Izquierdo also finds “a significant cyclical decline of the profit rate has
substantially preceded the last two recessions …. the cyclical slump in the rate of profit must
be seen as an important precipitating factor in the deepest economic downturn since the
1930s.”18

Kothari, Lewellen and Warner find a close causal correlation between the movement in US
business investment and business profitability.19 The US non-financial corporate rate of profit
fell secularly from the 1950s, reaching a low in the mid-1980s and then consolidating or
rising a little after that (Figure 12).

Figure 12. Quarterly fixed investment (Capx) and after-tax profits (NI) scaled by lagged total
assets for nonfinancial corporations from 1952–2010. Data come from the Federal Reserve’s
seasonally-adjusted Flow of Funds accounts. Shaded regions indicate NBER recessions.

The authors find that “investment growth is highly predictable, up to 1½ years in advance,
using past profits and stock returns but has little connection to interest rates, credit spreads, or
stock volatility. Indeed, profits and stock returns swamp the predictive power of other
variables proposed in the literature.” And that “Profits show a clear business-cycle pattern
and a clear correlation with investment.” The data show that investment grows rapidly
following high profits and stock returns—consistent with virtually any model of corporate
investment—but can take up to a year and a half to fully adjust.

The authors continue: “investment growth is closely linked to recent profit growth and stock
returns but only weakly related to changes in interest rates, stock volatility, and the default
spread. We find no evidence that investment drops following a spike in aggregate
uncertainty, contrary to the predictions of many models with irreversible investment. We also
find no evidence that investment growth slows after a rise in short-term or long-term interest
rates, contrary to the idea that Federal-Reserve-driven movements in interest rates have a
first-order impact on corporate investment.” So all the alternative explanations of crises offered by monetarists, Keynesians and post-Keynesians have no empirical backing.

The authors also measured the predictive causal correlation between changes in profits, GDP and investment and the Great Recession. They found that “if investment maintained its historical connection to profit growth, investment was predicted to drop by 14.7%, roughly two-thirds the actual decline of 23.0%.”

This two-thirds figure is almost exactly what I find for the period 2000 to 2013. I find that the correlation between changes in the rate of profit and investment was 64%; second, the correlation between the mass of profit and investment was 76%; and third, the correlation between the rate of profit (lagged one year) and the mass of profit was also 76%.20

Finally, the authors found that “at least three-quarters of the investment decline can be thought of as a historically typical drop given the behavior of profits and GDP at the end of 2008. Problems in the credit markets may have played a role, but the impact on corporate investment is arguably small relative to a decline in investment opportunities following the 2008 recession and financial crisis.”

Section 4: Keynesian versus Marxist multiplier

The Marxist explanation of the cause of recessions and depressions differs from the Keynesian one. The latter holds to the view that recessions are the result of a collapse in aggregate demand, possibly caused by a fall in consumption or investment or both. Consequently, if demand can be raised exogenously, i.e. by government spending and/or budget deficits, then an economy can recover. If policy makers fail to do this, or worse, apply the opposite policy of government spending cuts and reductions in deficits, they will prolong and/or worsen the recession into a depression.

The Marxist explanation of the cause of recessions and slumps starts with changes in the profitability of capital and then to investment and then to aggregate demand and employment. In this perspective, increased government spending or budget deficits will have little effect on restoring economic growth if profitability of capital is unaffected or even worsened as a result.

We can test the validity of either explanation by considering the impact of the Keynesian multiplier (a change in real GDP growth against a change in government spending) against that of what we might call the Marxist multiplier (a change in real GDP growth against a change in profitability).

Recently, Paul Krugman considered the impact of fiscal tightening, as measured by the IMF’s estimate of the cyclically adjusted primary balance (i.e., excluding interest payments) as a percentage of GDP.21 He showed the not the raw change in GDP, but the deviation of real GDP from what the IMF was projecting before the crisis and assumed that projected growth 2007-2013 was expected to continue for two more years to get 2015 estimates. This appears to show a significant correlation between fiscal tightening as defined and the deviation of actual real GDP growth from the IMF forecast (Figure 13).
Figure 13: The deviation from the pre-crisis IMF real GDP growth forecast and fiscal tightening (cyclically adjusted primary balance as a % of GDP).

Source: Paul Krugman

However, as Krugman says himself, this is perhaps an odd way of measuring the impact of the Keynesian multiplier and, if Greece is excluded, the correlation is less convincing. If instead of the deviation from IMF pre-crisis GDP forecasts, we use the change in the real GDP in the last five years against fiscal tightening, as defined by Krugman, the result does show a negative correlation for the G6 plus distressed Eurozone economies between 2010 and 2015. But interestingly, there is positive correlation for the G6 alone. In other words, the tighter the fiscal impact, the better the GDP pick-up in the G6 economies – the opposite of the conclusions of the Keynesian multiplier (Figure 14).

Figure 14. Changes in real GDP and the cyclically adjusted primary balance as % of GDP, 2010-15.
If we compare changes in government spending to GDP against the average rate of real GDP growth since 2009 for the OECD economies, there is a very weak positive correlation and none if Greece is removed (Figure 15).

Figure 15. The average rate of real GDP growth since 2009 (%) in the OECD economies and the change in government spending to GDP (%).

Source: AMECO database, author’s calculations

Also in a new study of the impact of austerity on growth, Alberto Alesina and Francesco Giavassi found that “fiscal adjustments based upon cuts in spending are much less costly, in terms of output losses, than those based upon tax increases. ...spending-based adjustments generate very small recessions, with an impact on output growth not significantly different from zero.” And “Our findings seem to hold for fiscal adjustments both before and after the financial crisis. We cannot reject the hypothesis that the effects of the fiscal adjustments, especially in Europe in 2009-13, were indistinguishable from previous ones”. In other words, cutting government spending (austerity) had little effect on the real GDP growth rate and that applied to the post-crisis ‘austerity’ policies of European governments.

Again in a new paper, Cugnasca and Rother from the EU Commission find that the average output cost of a fiscal adjustment equal to 1% of GDP is 0.5% of GDP for the EU as a whole in line with the size of multipliers assumed before the crisis, despite the fact that approximately three quarters of the consolidation episodes that considered occurred after 2009. The multiplier is somewhat larger at 0.76 for Eurozone countries and EU countries with a currency pegged to the euro, where monetary policy is less able to compensate for country-specific adjustments.

Now let’s consider the impact of changes in the profitability of business capital against economic growth (the Marxist multiplier). There is a significant positive correlation between changes in profitability of capital and economic growth (Figure 16).
Figure 16: The Marxist multiplier: change in real GDP and change in net return on capital, %, 2010-25.

The correlations are positive for G6 plus the distressed Eurozone economies (GIPS) and at much higher levels than with the Keynesian multiplier. We find that real GDP growth is strongly correlated with changes in the profitability of capital, while the correlation is only slightly negative with changes in government spending (Figure 16).

Figure 16. Average real GDP growth as a ratio of the average change in real government spending and the net return on capital.

Source: AMECO database, author’s calculations

US: Keynesian versus Marxist multipliers*

* Average real GDP growth as a ratio of average change in real govt exp and as a ratio of change in net return on capital

Correlations:
Govt exp: -0.04
Net return on capital: +0.64
This suggests that it is the profitability of capital that is decisive for the recovery or otherwise from an economic recession or depression.

Section 5: What is happening to corporate profits now?

Corporate profits in some of the major capitalist economies, namely the US, Britain, Japan, China and Germany, have been slowing sharply, from 11 percent year on year this time last year to just 3.2 percent at the end of 2014 (Figure 17).

Figure 17: Global corporate profits (percentage year on year) bars show average annual growth in global corporate profits

Source: US Bureau of Economic Analysis, author’s calculations

While US corporate profits are now contracting (Figure 18).

Figure 18. US corporate profits yoy %

Source: BEA, Datastream

Profits call the tune. Investment and growth follow.
“Recessions are common; depressions are rare. As far as I can tell, there were only two eras in economic history that were widely described as “depressions” at the time: the years of deflation and instability that followed the Panic of 1873 and the years of mass unemployment that followed the financial crisis of 1929–31. Neither the Long Depression of the 19th century nor the Great Depression of the 20th was an era of nonstop decline—on the contrary, both included periods when the economy grew. But these episodes of improvement were never enough to undo the damage from the initial slump, and were followed by relapses. We are now, I fear, in the early stages of a third depression. It will probably look more like the Long Depression than the much more severe Great Depression. But the cost—to the world economy and, above all, to the millions of lives blighted by the absence of jobs—will nonetheless be immense. “—Paul Krugman

Anwar Shaikh, “The Falling Rate of Profit as the Cause of Long Waves,” in New Findings in Long Wave Research, edited by A. Kleinknecht, Ernest Mandel, and Immanuel Wallerstein (London: Macmillan, 1992), pp. 174–95. http://gesd.free.fr/shaikh92w.pdf “The general economic crisis that was unleashed across the world in 2008 is a Great Depression. It was triggered by a financial crisis in the US, but that was not its cause. This crisis is an absolutely normal phase of a long-standing recurrent pattern of capitalist accumulation in which long booms eventually give way to long downturns.”

As Noah Smith, a Keynesian blogger, put it: “Modern macroeconomists think that recessions and booms are random fluctuations around a trend. These fluctuations tend to die out—a deep recession leads to a fast recovery, and a big expansion tends to evaporate quickly. Eventually, the trend re-establishes itself after maybe five years. No matter what happens—whether the central bank lowers interest rates, or the government spends billions on infrastructure—the bad times will be over soon enough, and the good old steady growth trend will reappear”....“But what if it’s wrong?” says Smith; what if recessions “deal permanent injuries to an economy?”


David Papell and Ruxandra Prodan, Professor of Economics and Clinical Assistant Professor of Economics, respectively, at the University of Houston, Long-Term Effects of the Great Recession, http://econbrowser.com/archives/2015/02/guest-contribution-long-term-effects-of-the-great-recession


Paul Krugman suggests that investment is lagging because of a general increase in monopoly power. “The most significant answer, I’d suggest, is the growing importance of monopoly rents: profits that don’t represent returns on investment but instead reflect the
value of market dominance.” Although more monopolies might explain higher profits with less investment, there is little evidence that monopoly power has risen in the past few years. After all, capital expenditures are low in competitive industries as well.

Another explanation is a post-Keynesian one: high profits are mirrored in reverse by a fall in real incomes and in labor’s share of total national income. Stewart Lansley argues that the sustained squeeze on wages in recent years “sucked out demand,” encouraged debt-fueled consumption, and raised economic risk.

On the other hand, Austrian school economist Benjamin Higgins reckons that businesses won’t invest because they may be more or less “uncertain about the regime,” by which he means they are worried that investors’ private property rights in their capital and the income it yields will be attenuated further by government action: regulation, taxation, and other controls.

The IMF believes it is lack of demand. Capitalist companies are not investing enough because there is a lack of demand for their products. This answer prompts the question: why is there a lack of demand? It also fails to recognize that the biggest component in the fluctuation in aggregate demand since 2007 has been investment. After all, investment is part of aggregate demand, as the BIS points out.


Mckinsey Global Institute, 2015

12 G Carchedi, Behind the Crisis. “The basic point is that financial crises are caused by the shrinking productive base of the economy. A point is thus reached at which there has to be a sudden and massive deflation in the financial and speculative sectors. Even though it looks as though the crisis has been generated in these sectors, the ultimate cause resides in the productive sphere and the attendant falling rate of profit in this sphere.”


15 See Banerjee, Kearns, and Lombardi, “(Why) Is Investment Weak?,” BIS Quarterly Review, March 2015


17 Tapia Granados, 2013

18 Camara Izquierdo, “Short and Long Term Dynamics of the US Rate of Profit.”

19 S.P. Kothari, Jonathan Lewellen, Jerold B. Warner  The behavior of aggregate corporate , August 2015

20 Author’s calculations


22 Alberto Alesina and Francesco Giavazzi, NBER Reporter 2015 Number 3: Research Summary, The Effects of Austerity: Recent Research


SOURCES AND METHODOLOGY FOR FIGURES

Figure 1. author

Figure 2. Datastream for real GDP growth, excel macro for exponential trend GDP growth

Figure 3. FT-Brookings

Figure 4. World Bank World Bank, www.worldbank.org/content/dam/Worldbank/GEP/GEP2015a/pdfs/GEP15a_web_full.pdf

Figure 5. IMF, http://blog-imfdirect.imf.org/2015/04/28/close-but-not-there-yet-getting-to-full-employment-in-the-united-states

Figure 6. Wall Street Journal

Figure 7. Datastream for personal consumption expenditures and gross private fixed investment and current GDP. Data lagged back one year (t-1) from point of start of each recession.

Figure 8. Graph adapted by author from work of Esteban Maito, 2014, “The Historical Transience of Capital”, http://gesd.free.fr/maito14.pdf


Figure 10. Federal Reserve (FRED series), TNWMVBSNNCB and CRDQUSANABIS

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Figure 11. Data and methodology from Carchedi and Roberts op cit

Figure 12. S.P. Kothari, Jonathan Lewellen, Jerold B. Warner The behavior of aggregate corporate , August 2015


Figure 14. AMECO database:
Net returns on net capital stock: total economy (APNDK)
Gross domestic product at 2010 reference levels (OVGD)
Net lending (+) or net borrowing (-) excluding interest: general government :- ESA 2010 (UBLGI)
% changes 2010-15 correlated

Figure 15. AMECO database
Net returns on net capital stock: total economy (APNDK)
Gross domestic product at 2010 reference levels (OVGD)
% changes 2010-15 correlated

Figure 16. AMECO database
Net returns on net capital stock: total economy (APNDK)
Total expenditure: general government :- ESA 2010 (Including one-off proceeds (treated as negative expenditure) relative to the allocation of mobile phone licences (UMTS)) (UUTG)
Gross domestic product at 2010 market prices (OVGD)
Real total expenditure of general government, deflator GDP :- ESA 2010 (OUTG)
Ratio of changes in GDP to govt exp and net return on capital from 1971

Figure 17. Datastream
Corporate profits from US, UK, Japan, Eurozone and China, % yoy changes averaged.

Figure 18. Datastream
US CORPORATE PROFITS WITH IVA & CCADJ - TOTAL (AR) CURA

All working data in excel for those figures prepared by the author are available on request.

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