THE WORLD IN ECONOMIC DEPRESSION: A MARXIST ANALYSIS OF CRISIS

NOTEBOOK NO. 4

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We are going through a period of profound uncertainty, morosity, and destitution. This is true even in imperialist countries, where the number of people in need of food banks is constantly increasing. In Britain, packs distributed by food banks more than doubled from 1.1 million parcels in 2015/16 to 2.5 million in 2020/21, with close to a million packs going to children in need.¹ This does not mean, of course, that everyone is suffering. The net worth of billionaires around the world grew by more than $3.6 trillion in 2020, boosting their share of global household wealth to 3.5% even as the pandemic pushed approximately 100 million people into extreme poverty.² The inequality that capitalism inevitably produces has created a world in which the richest 2,153 billionaires have more wealth than the poorest 4.6 billion people who make up 60% of the population on the planet.³ These twin trends are not peculiar to the impact of the pandemic: they have been going on for years, indeed for decades, woven together by the laws of capitalism in crisis.

In this notebook, we seek to shed light on the profound crisis of the world economy that has been unfolding for more than a decade. Explaining the crisis is not a meaningless exercise for the benefit of displaying the technical dexterity of professional economists. Rather, it is neces-
sary to go beyond superficial manifestations to discover the essence of the entire process. In this way, we can shed light on the path forward for the working classes of all countries and the oppressed nations of the world in their struggles to turn back the tide of destitution and misery. In an effort to provide tangible and concrete results for the proletariat and the wretched of the earth, it is important to explain the inherent contradictions of capitalism that give rise to these crises. Incorrect explanations can only mislead the masses and harm their struggles.

It is common knowledge that the capitalist world economy experienced a severe financial convulsion in 2008, which has come to be known as the global financial crisis. The bankruptcy of Lehman Brothers, one of the big Wall Street investment banks, sent shock waves across the world, bringing the international financial system to a total collapse. Christine Lagarde, France’s finance minister at the time (later to take on the posts of managing director of the International Monetary Fund and then president of the European Central Bank), warned US Secretary of the Treasury Hank Paulson that they must not allow the sprawling insurance company American International Group (AIG) to fail immediately after Lehman Brothers.

The crisis was triggered by the bloated housing market, especially in the Global North (not only in the US, but also in Britain, Spain, Ireland, and other countries), a result of pushing mortgages even to consumers who would patently not be able to pay them back. Not only did the so-called sub-standard mortgage market, which had reached entirely unrealistic values, collapse, but, because these mortgages had been packaged into derivative products in financial markets in forms such as collateralised debt obligations and collateralised loan obligations, this collapse brought, in its wake, the collapse of other financial markets and left many banks and other types of financial institutions facing the precipice.

The name ‘global financial crisis’ was, at first, used exclusively to depict the profound crisis that the collapse of Lehman Brothers triggered in the world economy. However, it rapidly became a misnomer, as it
became clear that the crisis was not peculiar to the sphere of finance but extended to the so-called real economy – in other words, the sphere of production. Steep, and to a certain extent unprecedented, decline was soon observed in such key variables as growth and investment as well as in a catastrophic rise in unemployment in many countries (at its worst, two European Union members, Spain and Greece, experienced youth unemployment that skyrocketed to more than 50% for years on end). Hence the ruling circles of the capitalist economy and governments began to use the neologism ‘the Great Recession’, coined by the Frenchman Dominique Strauss-Kahn (DSK, as he was known in financial and government circles), then the managing director of the IMF.

We refrain from using the term ‘great recession’ simply because, in our opinion, this was a smokescreen meant to hide the true nature of the crisis. A ‘great recession’ is something of an oxymoron. **Recessions** are conventionally defined as rather brief periods lasting longer than two quarters (or six months) that are fixed on a single economic variable, the rate of growth, when the latter enters the negative zone – in other words, when the economy shrinks. It is true that the world economy, as well as single national economies, did shrink immediately after the ‘global financial crisis’. However, many other factors were in play that are not encapsulated in the narrow technical concept of ‘recession’. ‘Great recession’ is an oxymoron simply because one cannot make the strictly narrow concept ‘recession’ do more work than the technical job for which it was invented. The appellation great recession was, in fact, invented by DSK to prevent state dignitaries, financial pundits, and the economics profession from using the ‘d-word’, i.e., depression.
The fact that the term ‘great recession’ was a smokescreen is also evident when one remembers what the alternative designation would have been. Alan Greenspan, who served as the chairman of the US Federal Reserve Bank for almost two decades, was among the most orthodox defenders of the rationality of markets and of capitalism. He made a lucky escape by retreating out of his role as the chairman of the US Federal Reserve Bank in 2006, thereby saving himself from being seen as the official directly responsible for the ‘Great Recession’. He was among many to say that this was a ‘once-in-a-century financial crisis’, a clear reference and comparison to the Great Depression of the 1930s. Thus, the ‘Great Recession’ concedes the ‘greatness’ of the crisis to conceal the fact that it was a depression.

Historically, capitalism has experienced different types of crises of varying intensity and duration. The most common among them generally occur roughly once in a decade and have conventionally been studied and referred to in professional literature as business cycles (the specialist writing on business cycles is outside the central core of mainstream economics for reasons we will be explaining in a moment). The culmination of a business cycle is, as a rule, a recession, a brief period during which the economy shrinks. This type of crisis is usually overcome through the adjustment of market forces, which has also been assisted to a certain extent by government policy since the post-war period in the second half of the twentieth century.

A depression is a different type of crisis in the history of capitalism. It lasts much longer, sometimes for a decade, sometimes for several decades. It cannot be managed and overcome through the conventional adjustment of market variables and requires radical convulsions not merely in the economic sphere, but also in the political, ideological, and even military domains. When a depression unfolds at the level of world capitalism, the convention, until now, has been to call it a great depression. The first such crisis – referred to as the ‘long depression’ at the time – took place at the end of the nineteenth century, approximately between 1873 and 1896. The second is the familiar Great Depression that began with the crash of Wall
Street in 1929 and spread far and wide all throughout the 1930s, lasting, for many countries, especially those in Europe, until the end of the Second World War in 1945. In the opinion of many Marxist economists, including the authors of this notebook, the prolonged and profound crisis that we are experiencing today is also a great depression.
THE DIMENSIONS OF THE CURRENT CRISIS

While the entire world has been experiencing economic malaise for a decade and a half, the trajectory and depth of the current crisis differ across countries and regions with diverse socio-economic structures and varying positions in the world economy. The imperialist countries, for good reason as we shall see, were the origin of the crisis, and their populations suffered greatly throughout this entire period in terms of economic growth, investment, unemployment, and labour productivity. The United States displayed a trajectory of its own, recovering to a certain extent after 2013 and sustaining an edge over other imperialist countries, in particular Eurozone countries and Japan, until 2019, when it began to experience a slowdown. This would soon be coupled with the impact of the COVID-19 pandemic, which began to spread with force in early 2020 as successive shutdowns took their toll on the country’s economic performance.

The so-called emerging countries (those that have been industrialising at a rapid pace over several decades or come from the background of a centrally planned economy), such as Argentina, Brazil, India, Mexico, Russia, South Africa, and Turkey, underwent a completely opposite trajectory from that of the United States. Having been shaken to some extent by the initial shock of the financial turbulence set on by the 2008 crisis, these countries soon recovered under the
pervasive mechanisms of capitalist finance to attain, at least in some instances, an economic performance beyond anything they had so far experienced. To take one example, the Turkish economy, after having shrunk during the first year of the crisis, recovered quickly to achieve, for the next two years, the highest growth rates the country had ever attained. The reason for the leap in economic performance in these countries did not necessarily have to do with their own policies. The most effective instrument that imperialist countries had to cope with the crisis was a policy of cheap and abundant money pursued by central banks, which made credit plentiful in these countries. However, since they drastically reduced interest rates for the same reason, finance instead flowed to countries where much more could be earned, namely the emerging countries. Thus, the bane of a world in crisis proved to be a boon for a certain group of countries whose economies were propelled by the inflow of all types of foreign liquidity. However, as the US economy began to recover in 2013, the Federal Reserve Bank changed its cheap money policy. This new policy orientation by the US Federal Reserve Bank initiated a period of hard times for emerging countries.

Though the less, and the least, developed countries faced differing scenarios, overall, they suffered seriously from the fall in international trade, which meant a reduced demand for their staple export products and an even higher decline in foreign direct investment. The price of primary commodities also took a beating. However, this had a differential impact on countries depending upon, for instance, whether the country was an importer or exporter of energy. In most of these countries, the overall impact was the accumulation of a mountain of foreign debt.

One country, however, was a category of its own: China. Although it considers itself to be a developing country, China has not suffered the same fate as the rest of the Global South, having maintained extremely high growth rates for decades based on its internal dynamics as well as its interaction with the rest of the world economy. Even since 2013, China has persisted as the single case that seems to demonstrate what
many experts call the ‘decoupling’ of emerging countries from the imperialist ones. Whatever the variety of experiences of different groups of countries, certain trends have inevitably had an impact on all groups in the long run.

Since 2008, there has been an overall slowing down of the economy both internationally and at the level of the richest imperialist capitalist economies (see figure 1). Investment, which had already been on the decline for a long time, took a nosedive in the period after 2008. Moreover, during the post-2007 period

the average annual labour productivity growth rate in the G7 countries has hovered around 1%, a dismal performance compared to the 2% average rate from 1971–2006 (see figure 2). Given this reality, whatever dynamism existed derived from the policies of governments and central banks in imperialist countries that aimed to achieve a quick recovery of the world economy. This took two forms: monetary and fiscal.

In the sphere of monetary policy, the central banks of imperialist countries followed in the footsteps of the US Federal Reserve Bank in aggressively pursuing a policy of cheap and abundant money. They did this in
two different ways. The first was by reducing the reference interest rate all the way down to zero in many cases and even into the negative zone in others (see figure 3). The second was that the central banks pursued a policy dubbed quantitative easing, which involved the purchase of government bonds in the open market – i.e., going to the printing press. Quantitative easing was nothing but a hypocritical euphemism for printing money that was not backed by corresponding developments in the real economy. This manifested itself in skyrocketing growth rates in the central banks’ balance sheets.

On the fiscal policy front, the United States and Eurozone poured vast amounts of money into government expenditure programmes that sought to recover the economy (see figure 4). Naturally, deficit spending and a policy of cheap money create liabilities in the long run, as expressed in the snowballing debt of the major imperialist economies (see figure 5).

Extraordinarily high levels of debt, which surpassed the 120% mark in 2012, signalled the highest public indebtedness in the entire history of the capitalist mode of production, breaking the record of wartime

![Graph showing total government expenditures in the US and Eurozone countries from Q1 2006 to Q3 2014.](image)

indebtment (see figure 5). By April 2023, US national debt had reached the staggering amount of US$ 31 trillion, which represented 124% of GDP. At around the same time, the 18 Eurozone countries had a debt-to-GDP ratio of 97.7%, although this varied wildly between the Mediterranean countries (Greece and Italy, for instance) and the countries of northern Europe. It is important to note that public debt is not the only burden facing the economies of imperialist countries: private corporate debt also rose immensely both before and after the global financial crisis (see figure 6).

**FIGURE 5:** THE G7’S DEBT-TO-GDP RATIO, 1950–2012

Roberts, *Long Depression*, 68.
As a result of this extreme policy of what is called pump-priming (i.e., stimulating an economy in recession), new bubbles are building up in stock exchanges and various markets such as housing, which have all grown at paces that are wildly incommensurate with the development of the real economy. Certain reliable experts on stock markets, such as the Nobel laureate Robert J. Shiller, have warned against being too sanguine about the ‘roaring 20s’ of the twenty-first century, since the previous roaring 20s of the twentieth century ended in the Black Tuesday of 1929, ushering in the Great Depression of the 1930s.7
Unforeseen events can also take a toll on economic cycles. For instance, the COVID-19 pandemic has certainly impacted the economic cycle and made predicting future patterns more difficult. Another example of unpredictability is the war in Ukraine, which is also taking its toll on the world economy. In addition to the direct impact of the war, including convulsions in the markets of energy, metals, and foodstuffs, in which Russia and Ukraine are key players, the extraordinary level of sanctions imposed by Western countries on Russia and the boycotting of the Russian domestic market by Western companies have amplified the disruption of the world economy. It is no exaggeration to say that a decade and a half after the 2008 Lehman Brothers moment, the world economy is still in a sorry state.
EXPLAINING CRISES: MAINSTREAM ECONOMICS

Let us inquire into what mainstream economics has to say about crises under the capitalist mode of production. As soon as we turn to mainstream bourgeois economics for its characterisation of crises, we immediately come face to face with the utterly ideological and apologetic character of this discipline. An overwhelming part of mainstream economics is built on the assumption that economic crises are ruled out because of the fundamental laws governing the capitalist economy. There are, of course, dissenting voices, and we will come back to them. But it is noteworthy that, for two full centuries, since Say’s Law was advanced in the early nineteenth century, the bourgeois economics profession has overwhelmingly denied the possibility of systemic crises under capitalism. Though the rationale for this denial in technical terms has changed over time, the denial itself has remained consistent throughout. Let us then call this the denialist school.

THE DENIALIST SCHOOL

Say’s Law, the brainchild of the French economist Jean-Baptiste Say (1767–1832), is quite simple. It advances the idea that since all production under the capitalist division of labour is
geared towards an exchange between the goods that each agent produces, it follows that all production creates a demand of equal magnitude of value for other goods, and hence all production creates its own outlet (Say called this the ‘law of outlets’). According to this law, total supply is thus necessarily equal to total demand, and so it is impossible for the economic cycle to be interrupted.

It is notable that David Ricardo (1772–1823), the greatest figure in the classical school of political economy alongside Adam Smith (1723–1790), adopted Say’s Law, which is, in fact, a vacuous tautology that does not stand up to even the slightest scrutiny. We shall come back to that shortly, but let it be said that, for half a century, Ricardo provided this supposed law its pedigree. Ricardo himself was not very optimistic about the historical prospects of capitalism. His theory of land rent shows that as capitalism progresses, land that is less and less fertile or more and more distant from metropolitan areas will have to be brought into cultivation. This process will necessarily raise the prices of foodstuffs, thus causing an inevitable fall in the rate of profit and, therefore, stagnation. However, this theory does not address capitalism’s periodic crises.

Neoclassical theory, which is currently the orthodoxy in mainstream economics, has faithfully subscribed to the denialist school of thought. From its rudimentary beginnings in the 1870s, when it was known as marginalist economics, until the general equilibrium theory developed in the wake of the
Second World War and the rational expectations theory of the late twentieth century, the denial of economic crises was the hallmark of neoclassical economics.

Today, mainstream economists no longer present Say’s Law as the rationale to explain crises. What has taken its place is an argument alleging the smooth functioning of markets. This argument is based on the mechanism of market clearing prices (the assumption that demand and supply find an equilibrium price point). However, this assumption of the market clearing prices leaves no space for excess or insufficient demand. The recent concept of the efficient market hypothesis reproduces these earlier arguments with little elaboration. Stripped of technical jargon, all this implies is that capitalist markets are so rational and efficient in their functioning that they leave no space for gluts, deficits, or crises.

The reader may well be wondering how the economics profession came to terms with the fact that, throughout the entire history of capitalism, this denial has coexisted with the very real experience of capitalist crises. As we hinted at earlier, this was done through the development of a specialised literature on business cycles, which studies the seesaw-like alternation of growth and contraction within the capitalist economy at regular intervals. However, it must be emphasised that this quite sophisticated literature, which has recourse to a set of complicated technical tools, has never pierced through the thick ideological skin of the mainstream, the result of which would have been to question the efficient market hypothesis.

The economics profession’s alternative justification for the concrete occurrence of crises in the real world has either been to deny that there is a crisis worth naming (reducing the turbulence to a ‘correction’, a term borrowed from the professional jargon of stock exchange analysts), to attribute the crisis to an ‘external shock’ (war, revolution, an unexpected jump in commodity prices, extraordinary meteorological circumstances, etc.), or, most commonly, to mistakes in economic policy. As Karl Marx (1818–1883) wrote, ‘the
apologists content themselves with denying the catastrophe itself and insisting, in the face of their regular and periodic recurrence, that if production were carried on according to the textbooks, crises would never occur.\(^8\)

There is an interesting anecdote that sheds light on this divorce between theory and reality in mainstream bourgeois economics. After the 2008 global financial crisis, Queen Elizabeth II of the United Kingdom visited the illustrious London School of Economics and Political Science (LSE). Like a naïve child asking the most untoward question in polite company, she asked the eminent economists gathered for the occasion – among them professors at the most prestigious universities, government advisers, and pundits for highly regarded organs of the financial press such as *The Economist* and *Financial Times* – the following question: ‘Why did no one see it coming?’\(^9\) There was no satisfactory reply. The duty of these eminent economists, up until the 15 September 2008 collapse of Lehman Brothers, had been to defend the impeccably rational functioning of markets in the face of criticism from their hapless less orthodox colleagues, choosing not to reply to Marxist criticism so as not to lend it legitimacy.

**KEYNES AND THE REALIST SCHOOL**

The denialist school has never been the only current in mainstream economics. From the beginning, some economists held a more sceptical attitude towards Say’s Law, an outlook led by two very different figures: Jean Charles Léonard de Sismondi (1773–1842), a social critic in Say’s own country, France, and Thomas Malthus (1766–1834), an extremely conservative parson in Britain and a friend of the liberal David Ricardo. Despite their uninterrupted correspondence on economic matters, Malthus was not able to convince Ricardo of the vacuity of Say’s Law. Ignoring exceptional figures such as William Stanley
Jevons (1835–1882), a prominent representative of the marginalist school, and the towering figure of John Maynard Keynes (1883–1946), a British public intellectual and economist who has to this day remained the major representative of what we will call the realist school, the Ricardo position on the question of crisis lingered all the way to the Great Depression years of the 1930s.

In his justifiably famous *General Theory of Employment, Interest, and Money* (1936), Keynes attacked Say’s Law head on and advanced the idea that the economy could in fact reach an overall equilibrium in a variety of different situations, such as when faced with underemployment or inflationary overheating on the one hand and a state of full employment on the other (which orthodox theory assumes to be the inevitable point of equilibrium).10 This diversity of possible outcomes was, in his mind, what made his theory a ‘general theory’.

A crisis, according to the scheme developed by Keynes, is a state in which aggregate effective demand (i.e. demand at the societal level that is backed by money) is insufficient to create full employment. It is hence a state of underemployment and underutilised productive capacity. At first sight, this description suggests to the public that Keynes was talking about a lack of consumption power in society because of the poverty and destitution of the working masses. In fact, a broad school of thinking ranging from mainstream Keynesians all the way to a powerful tendency among Marxist economists draws the conclusion that a crisis can be overcome by raising wages and benefits. This is what is conventionally called underconsumptionism. We will come back to it shortly when discussing the diverse Marxist schools of thought. But, for the moment, let us remain within the boundaries of mainstream economics.

It is true that earlier critics of Say’s Law were underconsumptionists. Malthus even went so far as to claim that economic crises are caused by a structural lack of sufficient demand and that, to fill this gap, there
needs to be a class of people who do not produce but only consume the revenue that accrues to them not for work but for other ‘services’ to society. However, to think that Keynes was a follower of Malthus would be a most unfortunate misunderstanding in the history of economic thought. Keynes was not an under-consumptionist. His entire corpus of thinking was centred around the decision process of the capitalist class, focused not on consumption but on investment. Keynes is a false friend that underconsumptionists cling to, and not always innocently, since Keynes can be a very powerful ally in pushing for certain policies. He himself was very clear that investment, not consumption, was the prime mover in the functioning of the capitalist economy.

Among mainstream economists, Keynes stands out for admitting that, because there are times when a drop in investment creates an underutilisation of the productive capacity and labour force of a country (or of the world economy as a whole), crises are part of the overall functioning of the economy. He then moves into the domain of the economic policies that governments can pursue in order to overcome such crises. Keynes is most famous for advocating not only for the type of monetary policy that many governments have pursued during the present-day crisis, but also, and very unconventionally for his day, a policy of government expenditure in the sphere of fiscal policy that seeks to stimulate economic activity.

Later, during the long post-war boom that lasted for roughly three decades (1945–1975), Keynesian fine-tuning policies accompanied a rise in state expenditure in advanced capitalism primarily in the spheres of education, health, housing, transportation, and other social services, also referred to as the social wage or the net social wage (i.e., the net taxes paid by the working population). This created the illusion that Keynesianism was some sort of social democracy promoted for the benefit of the working class. However, this is far from the truth: Keynes was a liberal bourgeois thinker who even advocated for a certain level of inflation in order to bring down real wages, which he alleged would make the recruitment of addi-
tional labour more attractive for capitalists, thereby reducing unemployment. Thus, the widespread thinking that Keynesianism is the perfect method to fight against crises in the name of labour is an illusion. It is certainly true that a rise in state expenditure under crisis conditions is a way forward so long as it is in the correct areas, such as education and health, for instance, rather than the military, but this fight need not be waged under the banner of Keynesianism.

The problem with Keynes’s explanation of crises is, in a nutshell, that his explanation for fluctuations in the volume of investment over time leaves much to be desired. Because his analysis of monetary theory is revolutionary in nature, the evolution of money and finance was a decisive factor for Keynes. Keynes brought into the picture different facets of capitalists’ calculations about the future, in particular their comparison between the expected returns from their capital investments (i.e., marginal rate of efficiency of capital) and the rate of interest, which is the cost of their capital outlay. Ultimately, he found that the determining factor for policy is in ‘expectations’ since both factors, ‘expected returns’ and ‘the rate of interest’, must be taken up in terms of their future development. This obviously begs the question of what determines expectations themselves, to which Keynes’ heroic reply was ‘animal spirits’.¹¹

Marx criticised Ricardo, the greatest bourgeois economist of the nineteenth century, for escaping into the field of agronomy in his theory of land rent because he had no overarching economic law of motion based on the particularities of the capitalist mode of production. Similarly, Keynes, the greatest bourgeois economist of the twentieth century, remained in the sphere of circulation and disregarded the relations of production under capitalism (and,
in particular, its specific class structure). Without a theory of production, Keynes failed to determine the rate of profit and thus the pace of accumulation independently of the expected rate of interest. Instead, he took refuge in the field of psychology (‘animal spirits’) in order to explain the laws of motion of capitalism.

**SCHUMPETER AND CREATIVE DESTRUCTION**

There are always mavericks. Joseph Alois Schumpeter (1883–1950), an Austrian by birth, was decidedly a nonconformist among the economists of the twentieth century. For one thing, although he was a staunch defender of the capitalist system, he was deeply influenced by Marx’s thinking. For another, unlike most mainstream economists, even more so than Keynes, he was not a narrow-sighted specialist who shut himself within the technicalities of the economics profession. Schumpeter tried his hand in international relations (generating an original, if utterly failed, theory of imperialism), political philosophy (looking at capitalism, socialism, and democracy), sociology (investigating the role of the family in the formation of social classes), and other fields. He was the perfect example of the well-rounded intellectual of turn-of-the-century Vienna, where he lived as a young man.

Schumpeter’s theory of crisis (in the form of a theory of business cycles) has remained influential to this day, especially due to his original idea of ‘creative destruction’, and has become one of the most popular and widely discussed (if not sufficiently digested) explanations of the current crisis. To understand Schumpeter’s originality on crises, it is best to turn to the opening section of his book on business cycles:
Analysing business cycles means neither more nor less than analysing the economic process of the capitalist era. ... Cycles are not, like tonsils, separable things that might be treated by themselves, but are, like the beat of the heart, of the essence of the organism that displays them.\textsuperscript{12}

The title of his 1939 book from which this quote is drawn, \textit{Business Cycles: A Theoretical, Historical, and Statistical Analysis of the Capitalist Process}, makes it clear that studying business cycles is, in effect, studying the capitalist process itself. This sets Schumpeter apart from all the great mainstream economists – even from Keynes, who did not treat crises as integral to the essential workings of the capitalist system. For Schumpeter, on the other hand, the category ‘business cycle’, or ‘crisis’, is the kernel that makes for the beauty of this particular social formation, propelling the productive forces to continuously develop.

Innovation, for Schumpeter, whether technical, socioeconomic, educational, or otherwise, is the driving force of all human progress. Capitalism is distinguished from all previous formations because it makes innovation an indispensable element of its functioning, which it achieves through the very mechanism of crisis. Crises periodically cause the destruction of the previously accumulated productive forces, which then create both the need and possibility to fill this evacuated space with new productive forces that are of a superior quality and productivity because they embody the fruits of new scientific research, technological application, and innovation. This is the famous process of \textit{creative destruction}, which makes capitalism an endlessly advancing force in history, always reaching out towards new horizons.

In many ways, Schumpeter’s vision of capitalism is quite similar to and was likely very much influenced by Marx, which is why he has been called a ‘bourgeois Marxist’.\textsuperscript{13} Both in \textit{The Communist Manifesto} (1848), co-authored with Engels, and in volume one of \textit{Capital} (1867), Marx had already emphatically and almost panegyrically stated that capitalism cannot exist without constantly revolutionising the means of production.
This influenced Schumpeter’s thinking. What we do not know is whether Schumpeter was also aware that Marx envisioned crisis as the moment when capitalism, through the destruction of the established means of production, makes way for the new and more productive means of production, since Marx’s remarks on crisis are scattered across so many different writings, most of them not yet published when Schumpeter was writing *Business Cycles* in 1939.

According to Marx, the constant revolutionising of productive forces under capitalism prepares the ground for socialism. Schumpeter, however, saw the constant revolutionising of productive forces as an everlasting benefit that capitalism provides to humanity. His ideological defence of capitalism has two aspects. On the one hand, by making crisis a category that serves the progress of humanity, Schumpeter provided a justification for the devastation and misery caused by capitalism. On the other hand, his theory led to a one-sided understanding of crises: he limited the destructive force of capitalist crises to the means of production, whereas it is perfectly possible that these profound crises may well move society towards the destruction of the social relations of production. To put it differently, the spasms of crises may also prove to be the birth pangs of a new, classless society. The idea of creative destruction is thus formulated so as to preclude the more radical destruction that can be caused by crises – that of revolution, capable of creating not only new means of production, but a new society. Hence, Marx’s theory of crisis contains but also supersedes Schumpeter’s insight into the functioning of the capitalist mode of production.
Explaining Crises: Marx and the Marxists

The Marxist theory of the capitalist economy recognises the central place of crises in the historical motion of this mode of production, which is one of the most salient reasons why the Marxist analysis of capitalism is superior to mainstream economic theory. As we shall see, not only did Marx give due recognition to crises, which are a most common phenomenon of capitalist development, rather than denying their systemic nature, but he also went further and analysed them as the pivot on which the fate of the capitalist economy and society hinges.

Marx’s Theory of Crisis: An Introduction

To start with, Marx refused to grant even the slightest validity to Say’s Law. This was in stark contrast with the theories of Ricardo, post-Ricardian economists, the theoreticians of the ‘marginalist revolution’ of the 1870s (Stanley Jevons, Karl Menger, and, most importantly, Léon Walras), and the entire neoclassical school of economics that gradually formed in the footsteps of the marginalist school. Despite this, Keynes did not give Marx the credit he deserves, though he praised Malthus at length for his insight into how a possible lack of effective demand can lead to a crisis. Keynes’s bourgeois prejudices are likely the only reason that he underestimated
Marx. In his *General Theory* (chapter 23, section VI), Keynes took up Silvio Gesell (1862–1930), an idiosyncratic figure in the history of monetary theory and the finance minister of the short-lived Bavarian Soviet Republic in 1919. It is in the context of a comparison with Gesell that Keynes put forth his only assessment of Marx, writing, in reference to Gesell’s main work, *The Natural Economic Order* (1916):

The purpose of the book as a whole may be described as the establishment of an anti-Marxian socialism, a reaction against *laissez-faire* built on theoretical foundations totally unlike those of Marx in being based on a repudiation instead of on an acceptance of the classical hypotheses, and on an unfettering of competition instead of its abolition. I believe that the future will learn more from the spirit of Gesell than from that of Marx.14

Has anyone heard of Gesell in the twenty-first century?

Marx attacked Say’s Law for disregarding the possibility that sellers of commodities can delay their purchase of other commodities. Say based his reasoning on the fact that all commodity producers engage in production activities with the purpose of selling the commodities that they have produced in order to purchase other commodities. Hence, whoever sells buys. In the aggregate, this means that demand is created by supply. Marx pointed out the simple mistake here: although it is true that supply creates the *capacity* to purchase goods and services, the *act of purchase* is a separate transaction from the *act of sale*, since the two are mediated through the conversion of the value in question from the commodity-form to the money-form and back. Sellers may very well decide to withhold the money they have
thus acquired. If a sufficiently large number of sellers were to decide that it is to their benefit to keep their money and spend it sometime in the future (i.e., hoard their money), there would be a shortcoming in the demand for the goods produced, triggering the possibility of a crisis. In other words, Say reduced the unity between sale and purchase that is mediated by money into an unmediated or direct relationship between supply and demand.

As we mentioned earlier, Marx regards crisis both as a problem for capital accumulation but also as a solution. What we mean by this is the following: all crises of a sizeable magnitude reveal the contradictions within the process of capital accumulation, which are concealed during times of heady profit-making. As soon as accumulation slows down, all kinds of shortcomings and inadequacies of varying severity come to the surface. Among these, of course, is the fact that the means of production are undergoing moral depreciation and cannot continue to serve the capitalists who use them as the basis for their competitive effort in the market, whether domestic and/or international. Here, Marx and Schumpeter were in agreement.

Another aspect where Marx and Schumpeter agreed is that the destructive aspect of crisis contains within it a solution to the crisis at hand. According to Marx, any major crisis requires a solution to two problems. The first is that measures must be taken to raise the general rate of profit. The second is that the means of production that are subject to moral depreciation, that are no longer competitive, and that lag behind new and more productive capacity must be eliminated in order to give way to a new set of machinery and equipment and new methods of production. The modality of elimination of old productive capacity takes the form of what Marx called devalorisation (Entwertung in the German original). To explain the term briefly, Marx used the term valorisation (Verwertung) to refer to the process whereby production adds new, additional value to the object of labour through the expenditure of living labour. Since valorisation refers to the process of augmenting value, devalorisation refers to a loss in value, which can even reach the loss
of the entire value. Through this process, the capital embodied in a plant, machinery, or equipment loses or
sheds its quality of value to become worthless and can thus no longer serve as productive equipment. This is
Schumpeter’s analysis of the destructive process of crises. The elimination of old, obsolete, or insufficiently
productive machinery and equipment as a result of crises is also of fundamental importance in Marx’s
analysis.

Marx, and the Marxists who follow his analysis, make a fundamental distinction between the triggering
factors that cause a disturbance in the economy, which may then set off a chain reaction that transforms
a minor disturbance into a major crisis, and the crisis itself, which is always different from the triggering
element. A perfect example of this is when a rise in the price of oil provoked a major crisis in 1973–1974,
which led to the onset of a long, depressive period of slow accumulation. However, the real cause behind
that crisis of accumulation was the fall in the rate of profit over an extended period of time due to the pro-
gressive replacement of living labour by machinery and automation. Another more recent example is the
The subprime mortgage aspect of the crisis was simply the detonator of a devastating collapse in the finan-
cial system, which had expanded well beyond the productive base of the real global economy. We will return
to this mechanism in more detail below. For now, let it be noted that the tendency of bourgeois economics
to attribute the root cause of crises to their triggering factor has resulted in great confusion among the
public about the nature of crises.

There are many aspects to this dialectic between the real processes that cause crises within capital accu-
ulation and the outward manifestation of these crises. One such aspect is the question of overproduction.
Whether Keynesian or Marxist, all theories of crisis that identify capital formation (or investment) as
the key element in the coming about of major crises acknowledge that crises start in the form of a glut of unsold commodities. However, certain observers of this fact deduce from the existence of these masses of unsold goods that crises are, *in their essence*, crises of overproduction. Such confusion between the essential processes that lead to crises and the outward appearances of the source of a crisis may lead to serious misunderstanding about crises.
Marx situates the real dynamic of crises under capitalism in the productive sphere of the economy, within the production and accumulation of capital. Though the sphere of finance is not the hotbed out of which crisis grows, it nonetheless plays a fundamentally important role in how crisis unfolds.

Productive capitalists can amass additional capital over and above the reinvestment of the profits they pocket through the production of surplus value (i.e., the additional value that workers produce beyond the reproduction of the value of their wages) by resorting to two different methods: bank credit and funds gathered on the stock market. For reasons that we need not go into here, these two forms of funding give rise to forms of finance that constantly tend to expand beyond the original money advanced. In the case of banks, each slice of the deposits that customers entrust to them can create new tranches of credit that well surpass the original sum of money deposited. The stock market, on the other hand, is a place where there is a duplication of the value originally embodied in the means of production, which takes on a life of its own quite independently of what is occurring at any given moment in time within the sphere of production. Marx calls this last form of capital fictitious capital, since it separates from the
original capital that it represents and can very well take flight towards magnitudes of value incommensurate with the original productive capital it represents.

Finance’s capacity to self-propagate proves to be extremely handy when crisis sets in. Crises, whatever the cause, imply a lack of demand, a fall in consumption and sales, and a lack, therefore, of means of payment. Additional finance blows new life into the various economic units that are experiencing difficulty, helps sustain economic activity, and can even prevent bankruptcies, sometimes very sizeable ones. Marx calls this over-credit, in the sense that credit and finance carry economic activity beyond the confines of what is rationally possible given the capacity of the production system at that specific moment. Of course, these ‘confines’ are not fixed or static: as the injection of additional credit and the provision of extra loan capital through the stock market revive the economy to a certain extent, these limits advance proportionally and more economic units find a way out of the morosity into which they had earlier sunk. However, this newfound vitality comes at a cost: that of rising debt.

The more finance oils the machinery of a moribund economy, the more debt accumulates. In the end, financial flows reach a magnitude that is disproportionate when compared to the productive base that has given birth to all the credit and market capitalisation that have been amassed. Thus, the later the crash, the worse the outcome. This is what happened in 2008 and – based on an examination of the economic data in the years since – will, in all probability, repeat itself again in the short- or medium-term.
AN INTRODUCTION TO MARXIST THEORIES OF CRISIS: PROFIT-SQUEEZE, UNDERCONSUMPTION, AND THE FALLING RATE OF PROFIT

Within the Marxist tradition, there are a range of approaches to explaining what causes crises. Among them, there is wide agreement on Marx’s crisis theory but disagreement when it comes to the root cause of crises. We will not go through all the various approaches. Rather, our selection is premised on whether or not these theories have been able to explain the current crisis and the long depressive wave of 1974–1975. Considered in this light, three theories stand out: profit-squeeze theory, underconsumption theory, and the theory based on the law of the tendency of the rate of profit to fall.

PROFIT-SQUEEZE THEORY

Profit-squeeze theory is very simple: it contends that the crisis is caused by the strengthening of labour and the consequent rise in wages, thus leading to a squeeze in the profit rate. Though very popular at the end of the long post-war boom of 1945–1973, this theory is now largely out of favour.

The profit-squeeze theory stands on common ground with the theory based on the law of the tendency of the rate of profit to fall in attributing crises to a fall in profits. This makes it possible to compare the two theories. When we do this, we see that whereas profit-squeeze theory ascribes the fall in the rate of profit to the division of the product between the two basic classes of capitalist society, capitalists and the workers, the law of the tendency of the rate of profit to fall explains the fall by recourse to a changing composition of capital (we will return to this shortly).
When it was first advanced in the mid-1970s, profit-squeeze theory seemed quite plausible: at that stage of development, a shrinking reserve army of labour (i.e. falling unemployment) in the imperialist countries strengthened the working class, blew wind into the sails of labour unions, and created a tendency for wages to rise. This combination of factors is not uncommon in pre-crisis phases, since an overheated economy ignites precisely this kind of causal chain whereby wages increase as the economy exits a period of strong growth. So, both theoretically and empirically, this theory may very well seem flawless. However, it does not stand scrutiny when inspected more carefully.

Theoretically speaking, the problem with this theory lies not with its pointing out that there is a fall in the rate of profit. Rather, the problem is the reasons that this theory offers to explain this fall. That reason is this: a change in the distribution of income (or division of the product) between the two main classes can be rectified by the functioning of the capitalist economy in a rather short period (which is not the case with the law of the tendency of the rate of profit to fall). What is this mechanism that can iron out the problem of a falling rate of profit due to rising wages? It is the mechanism through which, by resorting to more machinery-intensive techniques, capital can shed labour, increase unemployment, and thereby bring down the level of wages by causing greater competition among workers and the unemployed. Marx explains this situation beautifully by pointing out that capital controls both the demand for and the supply of the labour force, making it impossible to force wages above the value of labour power for a meaningfully long period.15

If this is true, then the profit-squeeze theory, even if it is empirically true in the initial phase of a crisis, cannot explain a crisis of major proportions that lasts for years on end. This has been proven by subsequent developments, since it was the creation of a large reserve army of labour as a result of the crisis that led to the weakening of the working class and to subsequent decrease in wages. That is why profit-squeeze theory
was not put forward when the global financial crisis broke out in 2008: at that time, wages were in no sense so high as to squeeze profits.

Profit-squeeze theory was, to a certain extent, influential, but its influence has not lasted.

**THE THEORY OF UNDERCONSUMPTION**

The next trend that we will take up in Marxist crisis theory, underconsumption as the cause of all crises, is one that has had, both historically and at the present time, a great impact on Marxist thinking not only on crisis theory, but on the attempt to explain the overall functioning of the capitalist economic system. This theory – the theory of underconsumption – may be considered to be a holistic approach to the laws of motion of capitalism, whereby consumption and demand become the main drivers of the capitalist mode of production. This is quite a striking departure from the understanding of capitalism that Marx laid out in *Capital*, which was conceived to show that the production of surplus value, and hence of profit, is the driving force that maintains the momentum of capitalist accumulation. Underconsumption is so influential that it has almost become common-sense thinking for the public to automatically point to a lack of demand to keep up production every time crises are debated.

Nonetheless, underconsumptionism can be seen in many different schools of Marxism (as well as outside of Marxism) that otherwise have little in common, either theoretically or politically. One of the most illustrious representatives of underconsumptionism was Rosa Luxemburg (1871–1919), who, while trying to develop a theory of imperialism, criticised Marx’s *Capital*, in particular its analysis of the reproduction schemes in volume two, alleging that it misunderstood the entire mechanism of capitalist accumulation. Among other prominent representatives of underconsumptionism one can count the Monthly Review school (with Paul
Sweezy and Paul Baran as its main authors); the French regulation school (with Michel Aglietta, Robert Boyer, and Alain Lipietz as central figures); the social structure of accumulation school (represented by David Gordon, Michael Reich, Richard Edwards, Thomas Weiskopf, and Sam Bowles); as well as other influential figures in Marxist economic theory (most famously David Harvey).

Rather than studying underconsumptionism in all its variants and ramifications, we will simply present a composite picture of what it has to say about crises. From Luxemburg to Harvey, all underconsumptionists ask a very simple question: where does the demand for the goods that correspond to surplus value come from? Given the existence of surplus value, by definition, the value produced is larger than that which would replace the capital used up in the production process and the consumption expenditure in which workers engage to keep themselves and their families alive. The capitalist class cannot be expected to consume the entire surplus product, for this is not why they have had it produced in the first place. Who, then, buys the goods (and services) in which that value is embedded? Underconsumptionists are at a loss to understand where demand comes from. Some (Rosa Luxemburg, for instance) conclude, in a move reminiscent of Thomas Malthus, that there must be some middle strata, a different set of consumers who would create a demand for these goods. Others, such as Baran and Sweezy, reach the conclusion that state expenditure and unproductive expenditures (advertising, etc.) must fill the gap. Some, who tread in their footsteps, point to what is called a permanent arms economy, an idea popular in the 1960s and 70s, as the solution. Still others, such as the regulation and social structure of accumulation schools, bring in the welfare state as an element of the so-called Fordist regime, and some, such as Harvey, bring in all manner of subsidiary factors. The social structure of accumulation school and the regulation school also emphasise the impact of institutions and shifts in macroeconomic policy during the different periods of capital accumu-
lation in providing the additional demand necessary. Crises, in their eyes, are a result of the system’s failure to provide this additional demand.

What all schools of underconsumptionism overlook is that capitalist accumulation itself provides the answer to the question ‘where does the demand for the goods that correspond to surplus value come from?’ In his analysis of capital accumulation, Marx makes a distinction between simple reproduction and expanded reproduction. **Simple reproduction** refers to a situation in which the capitalist class consumes the entire surplus value as revenue. Since this is unrealistic, it is merely a heuristic device that is used to demonstrate the characteristics of the second scenario, that of expanded production, which corresponds to what happens in the real world of capitalism. **Expanded reproduction** is, in effect, capital accumulation itself: it means that capital expands its scale of production by using surplus value to purchase new means of production and hire new workers. These new workers are paid wages that are then used to consume additional consumption goods in excess of those consumed by the workers who are already employed. It is then a simple conclusion to draw that if there is an accumulation of capital (or expanded reproduction), this will create, under normal conditions, sufficient demand to consume the surplus value produced. But underconsumption theory rules out expanded production. Nikolai Bukharin, a prominent theoretician of the Bolshevik Party, criticised Rosa Luxemburg’s misgivings by pointing out that if one excludes expanded reproduction at the outset, it is no wonder that expanded reproduction will prove impossible to explain at a later stage in the argument.16

Even if underconsumptionists had been correct in identifying the original problem as a lack of demand, this theory cannot explain the recurrence of crises at a periodic rhythm. We need not go into the reason for this for each and every school in particular, but to take the example of the Monthly Review school, it is difficult to understand how a conscious strategy of constant pump-priming fails to work at periodic intervals.
According to the underconsumptionist framework, whatever state the capitalist economy is in – whether a lasting lack of demand leading to stagnation or a vigorous process of accumulation as a result of additional demand (wherever that may come from) – will continue forever, or at least until there is a discrete change in the circumstances. It is incumbent upon underconsumption theory to explain why that change in circumstances comes periodically. None of the schools we have discussed have even recognised the problem, let alone provided an answer.

Perhaps the most significant political consequence of this is that, as a general orientation, most underconsumptionists tend to propose wage increases as a solution to capitalist crises. This is politically important because it opens up an avenue that leads to a reformist policy of trying to convince capitalists that wage increases will serve their best interests by pulling the economy out of stagnation while helping working-class families to attain a more humane standard of living. This kind of proposal will necessarily create the illusion of common interests between the main classes, whereas, in reality, a severe economic crisis always deepens the contradictions between capitalists and working people. This, then, plays the part of a sedative, blunting the working class’s will to fight.

Marx attacks this kind of thinking in *Capital*:

If the attempt is made to give this tautology the semblance of greater profundity, by the statement that the working class receives too small a portion of its own product, and that the evil would be remedied if it received a bigger share, i.e. if its wages rose, we need only note that crises are always prepared by a period in which wages...
generally rise, and the working class actually does receive a greater share in the part of the annual product destined for consumption. From the standpoint of these advocates of sound and ‘simple’ (!) common sense, such periods should rather avert the crisis.¹⁷

For these and other, more secondary, reasons, underconsumption theory simply does not stand scrutiny.

**THE LAW OF THE TENDENCY OF THE RATE OF PROFIT TO FALL**

Marx’s analysis demonstrates that the capitalist system revolves around value rather than use-value, production rather than consumption, and profit rather than need. So, there is nothing outstanding about the fact that the entire motion of capital accumulation is determined by the vicissitudes of the profit rate. In fact, the entire discussion about the falling rate of profit is so important that Marx characterises it as the ‘most important law of modern political economy’.¹⁸

As with all scientific laws, the law of the tendency of the rate of profit to fall is a tendential law. In other words, the law itself is constantly subject to modification, attenuation, and even arrestation under the impact of countervailing tendencies. Whether the law asserts its predominant tendency at a certain moment in time depends upon the mutual impact of this major tendency, i.e., the fall of the rate of profit, and the countering tendencies. However, the force of the predominant tendency is so powerful that, sooner or later, it will assert itself unstoppably.

This law can be explained on two different levels. The first explanation, found in volume one of *Capital*, is based on a study of the relationship between capital and wage labour, or the capitalist and the wageworker, in isolation from other complicating factors. The second explanation, found primarily in volume three of
Capital (with some passing references made in volume one), is situated within the sphere of competition between capitals.

At the level of the relation of production between capital and wage labour, the argument hinges on the method of production of relative surplus value. Marx distinguishes two different methods for the production of surplus value: absolute and relative. The production of absolute surplus value does not require any changes in the techniques or methods of production; it is based simply on lengthening the workday. The longer the workday, the more labour the worker will have to expend, and, given the wage rate, the more surplus value will be produced as a result. Relative surplus value, on the other hand, relies, in its most salient and systematic form, on changes in the technical basis and methods of production. It is the outcome of a rise in the productive power of labour resulting from factors such as the development of new scientific research, the discovery of new materials, the application of scientific discoveries to technology, and the creation of new methods of production. As the rise in the productive power of labour spreads widely throughout the economy, an ever-smaller amount of labour will be necessary to produce each and every good. Included among these is, of course, the batch of consumption goods consumed by the worker and his or her family. As consumption goods cheapen, the worker will have to spend less of his or her time to reproduce an amount of value equivalent to his or her wages and thus will spend a longer part of the (unchanged) workday in the production of surplus value. In this way, because the wage goods have cheapened, the capitalist appropriates a higher amount of the surplus value. This, in a nutshell, is the process of the production of relative surplus value.

This process is the scientific basis for Marx’s assertion, put forth as early as The Communist Manifesto, that the owners of capital ‘cannot exist without constantly revolutionising the instruments of production’. In
its search for higher surplus value (i.e. profit), capital constantly develops new techniques, materials, and methods that will increase the productivity of labour.

However, this creates a contradiction for capital. Most of the time, the advancement in techniques involves the incorporation of new machines and more expensive materials into the production process. Thus, constant capital – i.e., the plant, machinery, other equipment, auxiliary elements such as energy, and other similar expenses – increase in relation to living labour. What Marx calls the technical composition and the organic composition of capital (the difference need not detain us here), i.e., the ratio of constant capital to living labour, increases as well. However, the basic Marxist proposition concerning value posits that the source of all value, and therefore of surplus value, is living labour. As capital strives to increase the amount of surplus value, it is thereby ejecting from the production process the very source of value, i.e., labour.

The rate of profit is the ratio of surplus value to overall capital. Because constant capital (machinery, etc.) increases faster than living labour and because any given amount of living labour can only create a given amount of surplus value, the denominator increases faster than the numerator, thus bringing down the rate of profit. Of course, since the entire operation was started to increase the relative surplus value, the numerator will not remain constant but will increase as well. This is one of the tendencies that counteract the falling rate of profit (and the only one that is important for our purposes). Thus, the outcome will be decided by which grows faster: the productivity of labour or the organic composition of capital. But as the investment that must be made in order to extract additional surplus value increases with more and more advanced technology, at a certain stage organic composition will overcome the counteracting tendency and the rate of profit will start to fall.
The second explanation for the law of the tendency of the rate of profit to fall derives from the same process, now regarded not through the lens of the relations of production between capital and labour but from the angle of the dynamics of competition between capital. There are, of course, many different factors that determine who among the contenders will prevail in this competition. What is of interest to us here is price competition based on technical change, which also happens to be the most important factor in real life in the long run. In order to outbid its competitors, a firm will invent a new technique or method of production that increases the productivity of its labour force. This means that the individual value of the firm’s goods (or services) will cost a lower amount of labour than the comparable goods (or services) of its competitors, allowing it to bring down its own price. This puts the firm’s competitors in a quandary: either they will continue to charge the same price as before, which will cause an exodus of buyers to their competitor who can offer the same good of equal (or perhaps even higher) quality at a lower price, or they will have to lower their own prices in a similar fashion, which means they will suffer losses when compared to their competitor. So, in the long run, there is no way out for the other firms except to adopt the same technique (or even better ones, if such methods are available) in order to survive. Once this has been achieved, all firms can bring their prices down to the same level.

What are the consequences of this advancement in the productive forces? This process increases the outlay on capital goods (machinery, equipment, new materials, etc.) for all firms while leaving profits behind when compared to the incremental costs necessary for modernisation. The outcome, in the long run, is a drop in the rate of profit. Hence, we see that under certain conditions, when the predominant tendency overcomes the counteracting ones, profit rates fall.

For the capitalist, the aim of production is to obtain the highest surplus value (profit) from a given magnitude of capital, i.e., the highest rate of profit possible under given circumstances. Consequently, a fall in
the rate of profit will, by that very fact, make capitalists less willing to invest new capital, i.e., to accumulate capital, at the same pace as before. This means that there is not enough surplus value for expanded reproduction to continue. The Marxist theory of crisis, therefore, is neither one of overproduction nor of underconsumption, but a crisis of overaccumulation.

Until half a century ago, the law of the tendency of the rate of profit to fall was only a theory, albeit a very powerful one, and, in our opinion, the best one to explain capitalist crises. It had never been tested empirically and therefore had never been compared to the real situation on the ground in terms of measuring the different variables, such as the organic composition of capital, the rate of surplus value as an indicator of the productivity of labour, and, above all, the rate of profit itself. The reason for this is that the value magnitudes are the embodiment of relations of production that lie hidden under the layers upon layers of the outward manifestations of the real relations of production. Like atoms that form all matter but are simply not visible to the naked eye, they are not immediately visible and hence are not amenable to being directly compiled into useful and correct statistics. Therefore, in order to estimate and calculate these value categories, a series of reverse transformation processes have to be performed based on categories that are not those used for Marxist analysis, starting with national income accounts. This was very difficult to do. Even the technology necessary for this kind of calculation and analysis was not available.

Nonetheless, there had been some earlier, somewhat rudimentary attempts at measuring and estimation. The pioneering work of Joseph M. Gillman (1957) and Shane Mage (1963) deserve mention. However, truly grounded work has only been carried out since the 1970s, when Marxists such as Anwar Shaikh, E. Ahmet Tonak (one of the authors of this notebook), Fred Moseley, Michael Roberts, and Guglielmo Carchedi began to engage in the untrodden path of calculating these variables. As a result, we now have evidence that the rate of profit behaves in the ways in which Marx predicted it would (see figure 7).
Michael Roberts, ‘A World Rate of Profit: Important New Evidence’, Michael Roberts Blog, 22 January 2022. This figure is based on Penn World Tables 10.0 data. As Roberts points out, this database has no distinction between productive and unproductive activities. However, it has a series called the internal rate of return on capital stock (IRR), which can be used as a good proxy for the Marxian rate of profit.
Unlike underconsumption theory, this theory can very well explain the periodic recurrence of crises. When capital accumulation slows down or even comes to a stop, the capitalist class and its government will, of course, take measures in order to raise the rate of profit once again to a level that goads capitalists to start investing in new productive capacity. These measures may, at times, imply drastic changes in the overall economic policy orientation. This has been the case with neoliberalism, a strategy of atomising the global working class in order to raise the rate of surplus value and, concomitantly, the rate of profit. Capitalists have no qualms about replacing the existing state form with one that can enact measures that are better positioned to restore the rate of profit. The more powerful the contradictions between the working and capitalist classes, the more repressive the regimes that result. This was the case with the rise to power of Hitler’s Nazi regime in the wake of the 1929 stock exchange crash that brought the entire world (except for the Soviet Union) to the brink of total collapse.

Finally, we would like to remind the reader of the role that finance can play in postponing the worst outcomes of crises by injecting ever-higher amounts of credit and other forms of finance into the economy and thus temporarily relieving many economic units, prolonging the day of reckoning when the bubbles burst. The global financial crisis of 2008 is an excellent example of such reckonings.

Hence, the outward manifestation of a crisis is hardly ever directly indicative of the true causes of that crisis. A superficial interpretation misleads those who act to change the tide in favour of the working masses, the oppressed nations, and the wretched of the earth, leading to policies that are of little help to get us out of the doldrums.

We have thus come to the end of a rather long journey of explaining the mechanism behind crises and, by extension, the current crisis. But pressing questions remain: why are there depressions? Why have
depressions become the most salient but also the most destructive form of capitalist crises over the last 150 years? To answer these questions, we will look to Marx’s grand vision of historical change, of how humanity moves from one mode of production, one socioeconomic formation, to another.
GREAT DEPRESSIONS AS THE BIRTH PANGS OF A NEW SOCIETY

There is an ongoing debate about when and where capitalism developed. Some schools of thought argue that it dates back five centuries, while others argue that it has been around for half that time. One thing that is clear, irrespective of these debates, however, is that great depressions are a phenomenon exclusively of the past 150 years: the Long Depression (1873–1896), the Great Depression (1929–1948), and the Third Great Depression (2008–present).

We have already seen that business cycles are endemic to capitalism and usually result in a recession that lasts for a short period, after which market forces, with some help from government economic policy, usually initiate a new cycle of expansion. This is not so with great depressions, which last for a much longer period (at least a decade, if not several decades), are necessarily international in character, and require deep restructuring of the economic, political, and even the ideological and military spheres to resolve the contradictions that have given rise to profound disruptions. Great depressions have not occurred throughout the entire history of capitalism; rather, they are the product of a certain historical stage of the development of the capitalist mode of production. Hence, it can be said without hesitation that, as capitalism progresses, economic crises become ever-more severe and longer lasting.
Why is it that although ‘economic crisis’ has been a household term throughout the entire capitalist epoch, the term ‘depression’ is confined to the most recent phase of capitalism? To answer this question, we must first remember the fact that although Marx and Engels did not live to see the periodic recurrence of great depressions, they pointed to the basic dynamics of the increasing severity of economic crises in the life-process of capitalism. As they wrote as early as *The Communist Manifesto* (1848):

> Modern bourgeois society with its relations of production, of exchange and of property, a society that has conjured up such gigantic means of production and of exchange, is like the sorcerer who is no longer able to control the powers of the nether world whom he has called up by his spells. For many a decade past, the history of industry and commerce is but the history of the revolt of modern productive forces against modern conditions of production, against the property relations that are the conditions of the existence of the bourgeoisie and its rule.

> It is enough to mention the commercial crises that by their periodic return put the existence of the entire bourgeois society on trial, *each time more threateningly* [emphasis added]. … The productive forces at the disposal of society no longer tend to further the development of the conditions of bourgeois property; on the contrary, they have become too powerful for these conditions, by which they are fettered, and no sooner do they overcome these fetters than they bring disorder into the whole of bourgeois society, endanger the existence of bourgeois property. The conditions of bourgeois society are too narrow to comprise the wealth created by them.\textsuperscript{20}

This passage sets the stage for Marx’s later investigations into the functioning of capitalism. The four words that we have emphasised – *each time more threateningly* – demonstrate that Marx was conscious, even at this early stage of his work, that economic crises become ever-more severe and disruptive with the maturing of
the capitalist mode of production. The passage that follows in the manifesto explains why this is the case: the very productive forces developed by capitalism come into contradiction with the mode of production that has given life to them. The more developed they are, the greater the contradiction and the more severe the crisis.

The category of economic crisis occupies a unique position in Marx’s analysis of capitalism, distinct from all rival theoretical treatments of crisis. Even Schumpeter’s ‘creative destruction’ cannot match Marx’s understanding; for Schumpeter, the adjective ‘creative’ in that concept refers to the creation of new productive forces in the vacuum created by destruction, whereas for Marx the ‘creation’ in the context of crisis is that of a new society. Having gained the stature of ‘great depression’, crisis now takes on the part of a midwife who guides the transition from a system based on capitalist private property and the market to one based on public (or commonly held) property of the means of production and central planning. This transition, however, is an extraordinarily painful one. As an ultimate dialectical reversal, the wasteland created by crisis is expected to give birth to a civilisation that is at once dynamic, constructive, and fair.

This dynamic is in complete agreement with Marx’s general vision of history, which he laid out in the 1859 preface to *A Contribution to the Critique of Political Economy*:

> In the social production of their existence, men inevitably enter into definite relations, which are independent of their will, namely relations of production appropriate to a given stage in the development of their material forces of production. The totality of these relations of production constitutes the economic structure of society, the real foundation, on which arises a legal and political superstructure and to which correspond definite forms of social consciousness. … At a certain stage of development, the material productive forces of society come into conflict with the existing relations of production
or – this merely expresses the same thing in legal terms – with the property relations within the
framework of which they have operated hitherto. From forms of development of the productive
forces these relations turn into their fetters. Then begins an era of social revolution.\textsuperscript{21}

The transition from feudalism to capitalism in Western Europe unfolded precisely in this manner. The
relationship between lord and serf in the countryside and the relationship between master and apprentice in
the context of the stifling rules of the medieval corporation became fetters on the potential of the productive
forces. The contradictions that arose as a result between the rising bourgeoisie and the free cities, on the
one hand, and between the classes of feudal society with vested interests, on the other, led to a struggle
that finally created a head-on clash between the forces of the new society that strove to come into being
and the absolutist state of late feudal society. Thus was born the era of social revolution that Marx discusses in
the preface to \textit{A Contribution to the Critique of Political Economy}. The democratic revolutions in the Atlantic
region, starting with the English Revolution of 1640, followed by the US and French revolutions of
the late eighteenth century, and continuing with the Latin American revolutions of the early nineteenth
century, contributed, each in its own unique manner, to the unfolding of this generalised social revolution.
As a result, the new capitalist-bourgeois society gradually replaced the old feudal socioeconomic structure.
The subsequent expansion of capitalism to the rest of Europe in the wake of the 1848 revolutions, which
took place across the continent, and the still later development of capitalism in the rest of the world require
separate treatment outside the scope of this text.

It is this same type of contradiction between the productive forces and the social relations of capitalist
society, in particular the relations of production between the capitalist class and the proletariat, that is
now ‘each time more threateningly’ putting capitalism in jeopardy. As in the transition from feudalism to
capitalism, and in the upcoming transition from capitalism to socialism and, ultimately, communism, it is
this contradiction between the productive forces and relations of production that acts as the hotbed of the destruction of the old and the creation of the new. Here, crisis acts as the birth pangs of the new society.

The question then becomes: in late capitalism, what is the basis of this contradiction between the productive forces and the relations of production, which are the two terms of the dialectical unity that form the mode of production? Marx addresses this in chapter 32 of volume one of *Capital* ("The Historical Tendency of Capitalist Accumulation"), where he first explains how capitalism, at its dawn, completely destroyed the historical unity between the direct producer and the means of production, how this subsequently triggered the dynamics of a new mode of production, and how cooperation and the technical division of labour in the workplace and factory transformed production into a collective process. Through this process, with large-scale production creating ever-more efficient, productive, and profitable results, large capitalists, having earlier destroyed the independent existence of direct producers, then move on to swallow up weaker capitalists. Having done so, it is time for capitalists to expropriate other capitalists. Marx explains:

This expropriation is accomplished by the action of the immanent laws of capitalistic production itself, by the centralisation of capital. One capitalist always kills many. Hand in hand with this centralisation, or this expropriation of many capitalists by few, develop, on an ever-extending scale, the cooperative form of the labour-process, the conscious technical application of science, the methodical cultivation of the soil, the transformation of the instruments of labour into instruments of labour only usable in common, the economising of all means of production by their use as the means of production of combined, socialised labour, the entanglement of all peoples in the net of the world-market, and with this, the international character of the capitalist regime... [B]ut with this too grows the revolt of the working class, a class always increasing in numbers, and disciplined, united, organised by the very mechanism of the process of capitalist production itself. The monopo-
ology of capital becomes a fetter upon the mode of production, which has sprung up and flourished with, and under it. Centralisation of the means of production and socialisation of labour at last reach a point where they become incompatible with their capitalist integument. This integument is burst asunder. The knell of capitalist private property sounds. The expropriators are expropriated.22

What Marx is explaining here is how the mode of production, based on capital, destroys its own bases in accordance with the logic of its own development. Collective, social, large-scale, and internationalised production, on the basis of its own dynamics, centralises production. This centralisation is accomplished through the elimination of smaller capitalists with each passing day and through the socialisation of labour to such an extent that from its isolation in small-scale units, the labour process grows into an integrated mode of existence where the worker now comes to be regarded as the ‘collective worker’. Production decisions are now made on the scale of vast units (i.e., corporations), and as a result, production is planned on an extraordinarily large scale and at an international level. This is what Marx calls the centralisation of the means of production and the socialisation of labour. These processes of centralisation and socialisation enter into a contradiction with the logic of capital, based as it is on private appropriation and the market. Socialised production requires planning; capitalist property is a barrier in the way of wholesale planning. It is true that multinational companies do conduct planning on a large scale, but each is an island unto itself in a sea of market relations. Planning within individual corporations coexists with anarchy that reigns in relations between capitalists and within the world economy.
How is this contradiction to be overcome? Capitalism does not only produce commodities, techniques of production, and large-scale production; as a result of its very logic, based as it is on ever-increasing expropriation, it simultaneously generates an ever-growing class of the dispossessed. With each passing day, the small-holder peasant and, to some extent, the petty merchant and the artisan of cities yield their place to the proletariat. Furthermore, as Marx explained, the vortex of competition between capitalists also gradually dispossesses the smaller or weaker capitalists of the means of production. The proletariat, this specific product of the capitalist mode of production, distinguishes itself from all the preceding classes of direct producers in history by the fact that it does not in the least enjoy a share in the means of production.

The proletariat is, by definition, a class that is deprived of and separated completely from owning the means of production. Hence, its interests lie not in defending property, but in defending the owners of labour power. That is why it is, in Marx’s words, a ‘universal class’. And that is also why the proletariat is the most adequate agent to abolish private property, which is itself the precondition to overcoming the fragmentation created by private property and the straitjacket of the market.

At the beginning of the passage from Capital quoted above, Marx emphasised the fact that the entire process of capital accumulation advances through ‘the immanent laws of capitalistic production itself’. In Capital, Marx traced the historical development of capitalism and established the laws that determine how a society based on capital functions. That is why Marx constantly talks of ‘necessity’: once established, capitalism necessarily proceeds towards its own demise on the basis of its own laws. In other words, through its very laws, capitalism generates, within its bosom, the forces that will destroy it. The effects of these laws may be mitigated, temporarily arrested, or even reversed for a certain period. However, as long as capitalism exists, as long as it develops according to its own inherent laws, at a certain stage of its development, it
will undermine its own existence. Capitalism, in other words, creates the historical conditions for its own demise.

Capitalism inevitably prepares the conditions for the emergence of a civilisation that is superior to itself. This civilisation will henceforth submit the productive forces that humanity has so far developed to planning. To this end it will do away with private property in the means of production and will thus eliminate both classes and the state, themselves the products of private property, from the scene of history. This civilisation is called communism and promises to take human society out of prehistoric times to begin the true history of humankind.

It is this contradiction of the historical development of capitalism that is embodied in the convulsions of great depressions. That is why the crisis that we are in the midst of today is not only a capitalist crisis, but a crisis of capitalism as a mode of production and of society.
What is the state of capitalist productive forces at the dawn of the twenty-first century? How have these productive forces confronted the fetters of private property to further the growth of capitalism? To answer these questions, we will break down six key phrases from the previously cited passage of *Capital* (volume 1), the first three below and the rest subsequently.

1. ‘The cooperative form of the labour-process’

2. ‘The transformation of the instruments of labour into instruments of labour only usable in common’

3. ‘The economising of all means of production by their use as the means of production of combined, socialised labour’

These three points are likely the least understood but most important aspects of the changes in productive forces brought about by the capitalist mode of production as it strives towards ever-higher quantities of surplus value, i.e. of profit.
In *Capital*, Marx traces the development of the productive power of social labour from early forms of cooperative labour and manufacturing all the way to the factory form. He points out that in each case, the social productive power of labour is mystified and misrepresented as a power of capital, but only because it is capital that hires the workers and puts them to work together. Rather, the power of social labour arises from the cooperation of the workers themselves and acts as a free gift to capital.

Capitalism has created a factory system of machine-based production that relies on an ever-more complicated imbrication of the productive functions of individual workers. Whereas the artisan of late feudal society who worked within the limitations defined by a corporation could easily say ‘this table (or this shoe) is my product, wholly the result of my work’, no worker today can say ‘this airplane (or this chip) is my product, wholly the result of my work’. The sum total of workers in a factory has become what Marx calls the **collective worker**. Whenever and wherever the production process is carried out collectively, a need arises for central control both in pre-production planning and in the execution during the production process. This need is also evident in areas such as sports and the arts, where capitalism or socialism may not even be a matter for debate: for instance, a football team and a philharmonic orchestra need organisation, alignment, and control, whether from a coach or a conductor, in order to successfully meet their objectives. The individual or the collective body that plans and coordinates this process (whether in the example of a sports team or orchestra or of the production process) can be designated autocratically, as under capitalism, or democratically, as under socialism.

Today, this process of the entanglement and imbrication of labour has gone one step further, most notably beginning in the 1970s with the division of the different stages of the production process in what is now popularly recognised as the rubric of supply chains and with the growth of the productive power of social labour to encompass the global workforce. The latter, also referred to as **globalisation**, has been enabled
by revolutions in information (digitalisation), communication (satellite, fibre optic, and cellular networks), and transportation (containerisation) technologies, a development that Manuel Castells described in his book *The Rise of the Network Society*. This increasing internationalisation of capital and the ever-growing integration of the world economy far exceeds simple world trade, which has existed for centuries. What we have now is not only the transit of goods and services across the world, but the internationalisation of production. The standardisation of the humble shipping container played a key role. Economic historian Marc Levinson explains the importance of containerisation:

The container is at the core of a highly automated system for moving goods from anywhere to anywhere, with a minimum of cost and complication on the way. The container made shipping cheap, and by doing so changed the shape of the world economy.

We can take nearly any commodity and discover that it is no longer made from beginning to end in a single factory. Instead, ‘firms could break up factories and set them up in several countries at the same time – a process known as the *disarticulation of production*, as Tricontinental: Institute for Social Research wrote in its first publication, *In the Ruins of the Present*. This process allows each individual part to be produced in a different country, assembled in yet another, and marketed to yet another, finally to be consumed across the planet. When global supply chains were disrupted by the COVID-19 pandemic, the world was reminded of how dependent we all are on the simultaneous labour of the workers of the world.

This entire process forms the basis of Marx’s assertion in chapter 32 *Capital*, volume one:

The monopoly of capital becomes a fetter upon the mode of production, which has sprung up and flourished along with, and under it. Centralisation of the means of production and socialisation of
labour at last reach a point where they become incompatible with their capitalist integument. This integument is burst asunder. The knell of capitalist private property sounds. The expropriators are expropriated.26

4. ‘The centralisation of capital’

Marx observed that the internal dynamics of the capitalist mode of production lead to the concentration and centralisation of capital. Marx used these terms somewhat differently from mainstream economists. By concentration, Marx meant the growth in the size of individual capitalist firms through the process of capital accumulation. By centralisation, on the other hand, he meant bigger capitalist firms swallowing up smaller firms or two firms of comparable power joining forces, two processes now referred to as acquisitions and mergers, respectively. The credit system plays an increasingly important role in mobilising the money capital needed to fuel the centralisation process.

Empirically, the centralisation of capital in today’s economy has been well documented. For instance, John Bellamy Foster and Robert McChesney demonstrated that, from 2004 to 2008, the total annual revenue of the top 500 global corporations accounted for roughly 40% of the total global income.27 Furthermore, their share of the total global revenue has nearly doubled since 1960, when it accounted for approximately 20%. Bellamy Foster and McChesney go on to say:

In the end, finance has been – as it invariably is – a force for monopoly. Announced worldwide merger and acquisition deals in 1999 reached $3.4 trillion, an amount equivalent at that time to 34% of the value of all industrial capital (buildings, plants, machinery, and equipment) in the United
States. In 2007, just prior to the Great Financial Crisis, worldwide mergers and acquisitions reached a record $4.38 trillion, up 21% from 2006. The long-term result of this process is a ratcheting up of the concentration and centralization of capital on a world scale.28

The process of the concentration and centralisation of capital, all other things remaining equal, results in the continuous growth of the size of firms and enterprises. This means that, over time, the labours of ever-greater numbers of workers will be increasingly articulated and enmeshed with each other.

5. ‘The conscious technical application of science’

Revolutions in information, communication, and transportation technologies have also transformed the production process. Some of the key elements of the widely acclaimed ‘fourth industrial revolution’ are:

- Machine learning/artificial intelligence
- Big data
- Advanced robotics
- 3D printing
- The Internet of Things
- Advanced manufacturing/smart factories
Nanotechnology

New resources from all corners of the world, such as lightweight materials, rare earth elements, cobalt, and lithium, many of which are becoming indispensable in the production process of new technologies.

While earlier waves of automation primarily affected semi-skilled labourers in manufacturing, current technologies also threaten the jobs of highly skilled service workers. Between 1979 and 2015, the United States lost more than seven million manufacturing jobs, yet factory production doubled. A study from Ball State University’s Centre for Business and Economic Research in 2016 showed that 88% of job losses in the US since the 1970s were due to robots and automation, whereas trade accounted for 13% of manufacturing job loss. This was not only the case in manufacturing; in a wide range of industries that entail routine work, human labour has been replaced by machines and software. According to data from the International Federation of Robotics, between 2008 and 2012 shipments of industrial robots increased by 9% on average per year.  

China has the fastest growing market for new robot installations, increasing by 25% per year from 2005 to 2012. Even before this, advancing technology had already had a dramatic effect on China’s factory jobs: between 1995 and 2002, China lost 16 million manufacturing jobs (about 15% of its manufacturing workforce) while also increasing its output. According to a recent study on industrial robots by the International Federation of Robotics:
Since 2010, demand for industrial robots had risen considerably due to the ongoing trend towards automation and continued technological innovation in industrial robotics. From 2015 to 2020, annual installations increased by 9% on average each year (CAGR). Between 2005 and 2008, the average annual number of robots sold was about 115,000 units, before the global economic and financial crisis caused robot installations to fall to just 60,000 units in 2009 with lots of investments being postponed. In 2010, investments increased and drove robot installations up to 120,000 units. By 2015, annual installations had more than doubled to almost 254,000 units. In 2016, the 300,000 installations per year mark was exceeded and in 2017, installations surged to almost 400,000 units. The 400,000 units per year mark was crossed in 2018 for the first time.

...

China has been the world’s largest industrial robot market since 2013 and accounted for 44% of total installations in 2020. The 168,377 units installed in China exceeded the combined installations in Europe and the Americas (106,436 units) by 58%.32

Robotisation, one of the most advanced technologies in the age of digitalisation, makes planning much more rational. It allows for the increased organisation of the production process within the division of labour between units of production, whether within the same enterprise or between distinct ones.

6. ‘The methodological cultivation of the soil’

The contradictions of capitalist agriculture are a microcosm of the essential contradiction of capitalism, as Marx revealed. The development of productive forces, including agrochemicals (such as fertilisers, pes-
ticides, and artificial ripening agents) and biotechnologies (such as genetically engineered seeds, smart tractors, mechanical harvesters, satellite technology, and big data) have both greatly increased the yields and greatly decreased the amount of human labour involved in modern agriculture. As a result, the existing forces of production generate enough food to feed every human being on the planet. And yet, the relations of production of capitalism dictate that the abundance created by high-tech agriculture is not used to end world hunger, but rather to increase capitalists’ profit.

In its forty-fifth newsletter of 2019, Tricontinental: Institute for Social Research noted:

One indicator of capitalism’s failure to manage food production is that – according to the FAO [Food and Agriculture Organisation] – a full third of global food production (1.3 billion tonnes per year) is lost or goes to waste. The FAO has developed new indices – the Food Loss Index and the Food Waste Index – to keep track of this abomination. ‘How can we allow food to be thrown away when more than 820 million people in the world continue to go hungry every day?’ asks FAO Director General Qu Dongyu.

We allow it because the system says that only those with money can eat. The name of the system is capitalism. It is inhumane to its core. It suffocates laughter.
**CONCLUSION**

A discussion on the diverse theories of crisis in the capitalist economy is not idle intellectualising. Quite the opposite, it provides us with immensely important political conclusions on immediate bread-and-butter and life-or-death issues not only for our species, but for all living beings. Summarising our findings and deducing the political lessons contained therein is therefore of the essence.

After analysing, in section one, the current state of the world economy and coming to the conclusion that the world has been undergoing what we labelled a new period of great depression since the international financial crash of 2008, we began to look into what is causing this situation. This required a brief survey of the competing scientific theories of economic crisis under capitalism offered by different schools of economic thought. We first reviewed theories within mainstream economics, with its denialist school, which we showed to be simply useless, and its realist school, with Keynes at its centre. Although we noted the relative superiority of Keynes’ analysis over the rest of mainstream economics, we nonetheless found it unsatisfactory, if only because it does not fully explain the dynamics that determine the volume of investments and because it leaves much to be desired by neglecting the centrepiece of the capitalist economy
– the production process – instead favouring the circulation process. This prevents Keynes from understanding the almost precise rhythm of periodically recurring capitalist crises.

We then turned to the various Marxist theories of economic crisis. Among these, we focused on the three that came to the fore in the discussion of the latest developments in the world capitalist economy. Upon examination, we found the profit-squeeze and underconsumption theories unsatisfactory.

The law of the tendency of the rate of profit to fall turned out to be the most sound theory and the only one that explains the periodic recurrence of economic crises throughout the history of capitalism. We then went one step further and drew attention to the fact that, beginning in the late 1800s, the level of disruption and dislocation caused by the major crises of the world economy had increased in a qualitative sense. This led to the coining of a new term in economic science, that of ‘great depression’. We noted that the great depression that we are in the midst of today is the third of its kind and, like the preceding two, is incomparably more profound and more threatening than the crises of the eighteenth and nineteenth centuries. We set out to inquire why this is the case and offered as our answer Marx’s major insight on the laws of change and development throughout history.

In Marx’s vision of history, the dynamic that leads to a transition from one type of socioeconomic formation to another lies within the mode of production that underpins these formations. Whether a transition from a pre-capitalist (e.g., feudal) society to capitalism or from capitalism to socialism and, ultimately, communism, the catalyst is the same: the dialectical contradiction between the productive forces and the relations of production. At a certain stage of development, the former can no longer flourish under the conditions previously determined by the latter. The same is now happening to capitalism on a world scale.
Marx’s masterpiece, *Capital*, shows that it is precisely the laws of motion of capitalism that create the conditions for the abolition of capitalist private property. This makes itself felt, ‘each time more threateningly’, through economic crises. The level of socialisation of the productive forces and their mutually dependent character, as well as the resulting reality that workers in the same workplace, or now in different workplaces, have become a collectively functioning productive unit, require planning at the societal level and even at the world level, since production has become immensely internationalised. But capital is inimical to central planning, which requires property in common, communal property under its different forms, in order to flourish. This is the contradiction that rings the death knell of capitalism.

We pointed out that there is nothing automatic, nothing mechanical, nothing inevitable in this transition. For the transition from capitalism to socialism to become a reality, there must be a revolutionary break from the old world. This can only be the work of a social force, a social class that has no innate interest in private property: the proletariat. The process of capital accumulation directly produces not only this class, but also the new productive forces that can no longer flourish within the straitjacket of the old relations of production. Unless the proletariat, leading the exploited and downtrodden forward under its hegemonic influence, takes over the direction of society from the capitalists, human society will remain futureless. Marx and Engels wrote of this possibility at the beginning of *The Communist Manifesto*, where they speak of ‘an uninterrupted, now hidden, now open fight, a fight that each time ended, either in a revolutionary reconstitution of society at large, or in the common ruin of the contending classes’. This alternative also found its expression in the battle cry of the great revolutionary Rosa Luxemburg, ‘socialism or barbarism’.

Great depressions are minefields that engender catastrophic political and military events. The first great depression of the late nineteenth century was overcome only through the rise of imperialism. The forcible colonisation and enslavement of the majority of the world’s people then led to the bloodbath of the First
World War. The second great depression, in the 1930s, led to the rise of fascism and Nazism, resulting in the barbaric Second World War that left tens of millions of people dead and gave rise to the Holocaust. Colonisation, universal war, and fascism are the barbarism of which Rosa Luxemburg spoke.

However, great depressions are also the hotbed of revolutions and rebellions. The October Revolution of 1917 and the Chinese Revolution of 1949, along with other revolutions around the world, were born from the circumstances of capitalist barbarism. So, the real political lesson that we can draw from studying economic crises is that the only path forward for the survival and advancement of humanity is to organise an order that overcomes the barbaric tendencies born of those capitalist crises called depressions. It should never be forgotten that both world wars came to an end not through peace negotiations, nor the preaching of peace by the good-hearted and well-intentioned, but through revolution and the power thus gained by the exploited and downtrodden.

Our final conclusion is this: the development of the capitalist mode of production creates the conditions for socialist revolution. As globalised capitalism exploits the workers of the world, drawing them together in cooperative work to labour in global supply chains, it simultaneously develops both the means of production to ever-greater heights of productivity and, alongside it, its own grave diggers in the form of a global working class whose cooperative labour is the source of all value, and, together with nature, of all wealth.

Capital has internationalised production; brought together workers across the world, once a multitude of nations, races, and ethnicities distant and alien to each other, creating one single collective workforce; and socialised all productive forces beyond the confines of national borders. By definition, the revolution itself must therefore be internationalist in scope. Surely, it can only begin at the national level, each section of the
international proletariat taking on its own bourgeoisie in their respective countries to fight to take over the nation state. However, revolution and counter-revolution have always grown into regional and then continental dimensions. Hence, we must prepare to wrest away parts of the world economy from the international bourgeoisie as the course of revolution unfolds. That is the only way that humanity can save itself from the increasingly destructive tendencies that capitalism has developed in the period of its twilight.
Notes


8 Karl Marx, Theories of Surplus Value, part 2 (Moscow: Progress Publishers, 1968), 500.


‘Capital works on both sides at the same time. If its accumulation, on the one hand, increases the demand for labour, it increases on the other the supply of labourers by the ‘setting free’ of them, whilst at the same time the pressure of the unemployed compels those that are employed to furnish more labour, and therefore makes the supply of labour, to a certain extent, independent of the supply of labourers. The action of the law of supply and demand of labour on this basis completes the despotism of capital’. Karl Marx, ‘Progressive Production of a Relative Surplus Population or Industrial Reserve Army’, in *Capital: A Critique of Political Economy*, vol. 1 (London: Penguin, 1976).


Marx, *Capital*, vol. 1, 929.


26 Marx, Capital, vol. 1, 929.


28 Foster and McChesney, The Endless Crisis, 74.


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