

Monetary Policy Crisis Management as a Threat to Economic Order

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Abstract

The paper analyses the effects of monetary policy crisis management of the European Central Bank on the economic order of Germany. It is argued that in post-war Europe the German social market economy as designed by *Eucken* (1952) and *Müller-Armack* (1966) has been a core element of growth, welfare, social cohesion and political stability in Germany and Europe as a whole. It is shown that the monetary policy rescue measures of the European Central Bank have undermined the constitutive principles of the German social market economy, which has considerably contributed to the erosion of (productivity) growth and welfare in Germany and Europe. As the outcome is crumbling social cohesion and growing political instability, a timely exit from ultra-expansionary monetary policy is postulated.

Geldpolitisches Krisenmanagement als Gefahr für die Wirtschaftsordnung

Zusammenfassung

Der Artikel untersucht die Effekte des geldpolitischen Krisenmanagements der Europäischen Zentralbank auf die Wirtschaftsordnung. Es wird argumentiert, dass im Europa der Nachkriegsjahre die deutsche Marktwirtschaft (Soziale Marktwirtschaft), wie sie von *Eucken* (1952) und *Müller-Armack* (1966) entwickelt worden war, ein Kernelement für Wachstum, Wohlstand, sozialen Zusammenhalt und politische Stabilität in Deutschland und Gesamteuropa war. Es wird gezeigt, dass die geldpolitischen Rettungsmaßnahmen der Europäischen Zentralbank die konstituierenden Prinzipien der Sozialen Marktwirtschaft untergraben haben, was maßgeblich zu sinkendem (Produktivitäts-)Wachstum in Deutschland und Europa beigetragen hat. Da dies zunehmend den sozialen Zusammenhalt in Europa gefährdet sowie eine steigende politische Instabilität nach sich zieht, wird ein baldiges Ende der ultralockeren Geldpolitik gefordert.

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I. Introduction

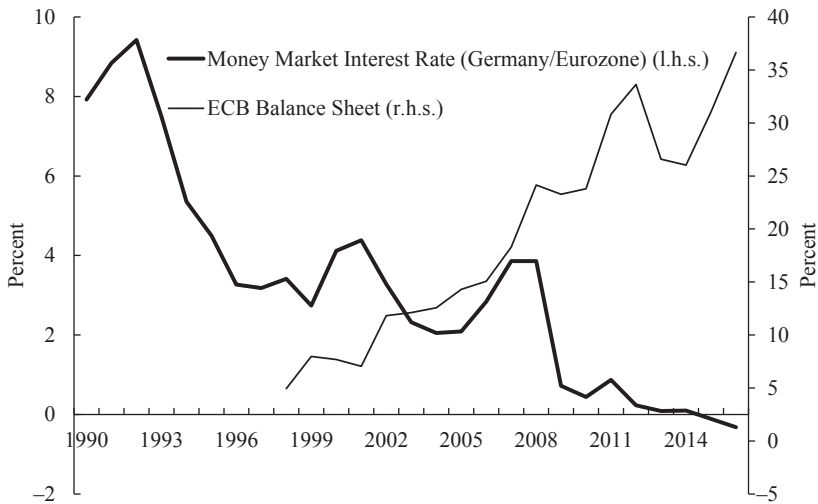
After seven years, the European sovereign debt and financial crisis is far from being solved. The general government debt levels in the European Monetary Union are in most member states close to record high levels and far beyond the 60%-Maastricht benchmark. Unemployment in the Southern European member states is high, particularly among young people. The influence of vested interests, especially the financial industries, is remarkable. European banks have been able to privatize gains and socialize losses of the latest financial cycle, which has significantly contributed to the rise of public debt and the decline of credibility of market economies.

The political response to the crisis is best described as defensive, with reform agendas remaining widely untouched. As a consequence of the governments' reluctance to address the foremost problems (among them excessive expenditure obligations and labor market regulations) the European Central Bank (ECB) has been assigned a growing number of objectives. Besides its goal to achieve price stability (as defined in the Treaty on the Functioning of European Union), the ECB aims to ensure financial sector stability, to stimulate investment, to keep together the Eurozone and to prevent unemployment via unconventional monetary policy.

Figure 1 one shows that short-term interest rates have declined to zero and the balance sheet of the ECB has grown to unprecedented levels. Trying to achieve several policy objectives with one instrument is a deviation from the *Timbergen* (1952) rule, which postulates for each policy objective one policy instrument. Confronted with several goals, the ECB is facing a number of potential trade-offs, for instance between short-term and long-term financial market stability as well as between short-term and long-term growth.

The immense scale of monetary policy crisis management also raises the question of whether current monetary policy is putting the economic order at risk. The ECB's government debt purchasing program strongly reminds of quasi-fiscal financing via the money press (*Deutsche Bundesbank* 2016). Even more, from a German perspective, the unconventional monetary policy of the European Central Bank seems to put into question the working mechanism of the social market economy, which has been constituted in the post-war era by *Walter Eucken* (1952) and *Alfred-Müller-Armack* (1966).

We will discuss whether the current monetary policy of the European Central Bank is compatible with Germany's Social Market Economy (Soziale Markt-



Source: IMF; IFS. Balance sheet as percent of GDP. Money market rate: until 1999 Germany.

Figure 1: ECB Balance Sheet and Money Market Rate

wirtschaft) and is therefore in the interest of Germany and Europe as a whole. To develop our argument, we discuss the fundamental differences in concepts of economic policy making in Europe and introduce the core elements of Germany’s post-war economic order. We will show that the unconventional monetary policy of the European Central Bank is in conflict with the constitutive principles of German economic order in specific and market economies in general.

This implies a clearly negative impact on growth and social cohesion in both Germany and its partner countries in the European (Monetary) Union. Therefore, the final section postulates a return towards market principles in Europe via the exit from ultra-expansive monetary policy. This would enhance social cohesion in Europe in every single country and at a supranational level.

II. Different Concepts of Economic Policy Making in Europe and the German “Social Market Economy”

In general, the economic order of a country is rooted in institutional and cultural traditions and the country’s value system. It organizes the division of labor among private agents as well as between markets and the state. At best, the economic order cannot be changed at short notice, but is subject to gradual change. An economic order or governance structure comprises all realms of economic policy making, in particular monetary, fiscal, competition, industrial and social policy.

1. *Different Concepts of Economic Policy Making in Post-war Europe*

All post-war Western European countries were liberal market economies with an increasing degree of openness to trade, capital flows and labor movement. Nevertheless, there has been a broad variety of concepts of economic order and economic policy making with long traditions each. Northern European countries can be seen as monetarist, liberal economies which could afford themselves – because of high levels of productivity – generous welfare states. This has been similar in the United Kingdom and Ireland, which have less of a focus on social policy. In the southern European countries, there has been more trust in state interventions and Keynesianism (Muresan 2014).

These differences also implied different growth models and different concepts of central banking. In Germany (and some smaller northern European countries such as Austria or the Netherlands) growth was based on comparatively high saving rates, high investment and export-driven growth. This growth model strongly depended on a price stability-oriented central bank, which ensured low real interest rates as a prerequisite for buoyant investment. Central bank independence (as in the case of the Deutsche Bundesbank) necessitated fiscal discipline, with the government financing expenditures via tax revenues.

In the southern and western parts of Europe, the growth models were oriented towards consumption and government expenditure, with the latter one being partially financed via inflation tax. Central banks were not independent, but subject to guidance by the governments. The resulting depreciations of the currencies (against the German mark) created an additional aggregated demand stimulus. For Germany and its smaller neighboring countries, these beggar-thy-neighbor policies were economically and politically acceptable, because they got access to the southern and western European markets, which helped to realize economies of scale in industrial production.

The upshot is, that growth rates of per-capita income in post-war Western Europe (in particular between the large countries Italy, France, United Kingdom and Germany) were strongly intertwined. The mutual interest in these different growth models was reflected in the smooth and continuous deepening of the European integration process. The Single European Act of 1986, which finalized the four freedoms – free movements of goods, services, labor and capital – can be seen as the crowning of this pan-European growth model. With Germany being the largest economy in Europe with a stable currency and a strong economy, the German economic order can be seen to have been in the center of European post-war growth dynamics.

2. The German Social Market Economy

Germany had chosen an economic order, which can be located between the Scandinavian and the Anglo-Saxon model. It was based on free exchange on markets, but also placed emphasis on redistribution and social justice. The name “Social Market Economy” indicates this blend. The German model of economic order was rooted in the experience of the late Weimar Republic’s monopolization and cartelization and the inability of the democratic government to contain these trends. The failure of democracy had come along with a totalitarian government gaining control of the large monopolies, which led into a command-and-control economy.

The approach of the Freiburg School of Law and Economics – also called Ordoliberalism or “Ordnungspolitik” – emphasized the importance of rules in economic policy making (see *Eucken* 1952, *Miksch* 1937 and *Böhm* 1950). The economic order was seen a set of rules agreed on by the citizens in consensus. There was a distinction between the rules of the game and the game itself. There are at least two reasons for accepting rules (Vanberg 2015): first, rules are a default option for individuals and collective bodies unable to forecast the future and to create solutions for all thinkable situations. Second, rules protect governments from the influence of powerful interest groups seeking rents through regulation or forms of protection. By signaling adherence to rules, the government can discourage lobbies to invest into rent-seeking activities.

The main principle of the German post-war economic order was the decentralized co-ordination on markets with the help of a functioning price system as opposed to sub-ordination through a hierarchically centralized system with price controls. The state enforces rules, but is not a market participant. Other elements of this order comprised private property rights, liability, subsidiarity, rule of law, currency stability, freedom to contract and a long-term orientation of economic policy.

The economic order was based on individual responsibility, collectively supported by a set of social policies within a welfare state in line with the thoughts from the catholic social doctrine (*Müller-Armack* 1950/1982, *Marx* 2006). This doctrine emphasizes the individual responsibility on the one hand and the crucial role of entrepreneurs (as opposed to managers) on the other hand. Entrepreneurs strive not only for profits but also take responsibility for workers, their city and their region, and more generally for the society. In particular, the role of small and medium-sized enterprises (SMEs) and their owners’ with their (in contrast to managers) long-term profit orientation contributes to the sustainability of business models.

Within a market-oriented framework socially undesired outcomes were to be corrected by public authorities. The Freiburg School emphasized the need to

protect competition from cartelization and monopolization and developed a comprehensive competition law and competition policy (see *Kantzenbach* 1966, *Hoppmann* 1968). The essence of German Ordoliberalism was outlined by *Eucken* (1952) in form of eight constitutive and four regulative principles for a sound functioning of a social market economy. The ordering of the principles was only partly arbitrary; at least the placement of constitutive principle 1 and constitutive principle 8 respectively come naturally:

Constitutive principle 1 is designed to ensure a functioning price mechanism based on perfect competition as the fundamental principle for market economies.

Constitutive principle 2 stresses the primacy of a stable monetary order as crucial prerequisite for functioning market economies.

Constitutive principle 3 calls for open markets, where competition among a large number of (small) players works.

Constitutive principle 4 is private ownership, which was regarded as necessary to ensure incentives to strive for profits and thereby efficiency.

Constitutive principle 5 is the freedom of contract between individuals, which does not allow for market entry barriers, except for severe market failure.

Constitutive principle 6 is the liability principle; market participants who have responsibility are also liable for the consequences of their action.

Constitutive principle 7 is continuity of economic policy in the sense that erratic changes in economic making should be avoided to maintain stable expectations.

Constitutive principle 8 points to the interdependence of order. All principles only enfold their full effectiveness, if they are simultaneously fulfilled.

The regulative principles aimed to correct undesired developments, which would possibly evolve within the free-market framework of the constitutive principles.

Regulative principle 1 called for an antitrust authority, which should control the market behavior of large private enterprises and ideally dissolve monopolies or prevent monopolies from emerging.

Regulative principle 2 stipulated redistribution via a progressive tax system.

Regulative principle 3 – i. e. the correction of (negative) externalities – was fitted already by then to issues of environment protection. The government was attributed the task to internalize negative external effects.

Regulative principle 4 targeted at the correction of anomalous developments in labor markets by regulation. *Eucken* (1952) thought of restrictions on the length of working hours, in particular for children and (by then) women.

III. Monetary Policy Rescue Measures as a Threat to the Economic Order

The constitutive principles of *Eucken* (1952) were designed with a focus on goods markets. The underlying assumption was that monetary policy is stability-oriented. Whereas today in goods markets the constitutive principles are – more or less – warranted, the monetary policy rescue measures of the European Central Bank seem to have toppled all constitutive principles via the detour of financial markets. In the following, *Eucken's* (1952) constitutive principles are matched with the impact of the ECB monetary policy measures on financial and goods markets.

Constitutive principle 1 was designed to ensure a functioning price mechanism based on perfect competition as the fundamental principle for market economies. *Eucken* (1952: 254–291) regarded a decentralized market structure as a prerequisite for a well-functioning price system. This fundamental principle made a strong statement against discretionary price distorting measures such as public subsidies, tariffs or direct price controls. Competition had to be preserved to sustain the functioning of the price mechanism. The interest rate was regarded as a core price in market economies, as changes in interest rates affect all other prices and thereby fundamentally change the structure of the whole economy. For this very reason undue credit expansion should not disturb the information function of prices.

In contrast, the monetary policy of the European Central Bank has destroyed price determination on capital markets by nudging the short-term interest rate (via conventional monetary policy measures) and the long-term interest rates (via unconventional monetary policy measures, mostly outright government bond purchases) towards zero or even in negative territory. This has disturbed two main functions of the interest rates. First, the allocation function, which separates planned investment projects with high expected returns from planned investment projects of low expected returns. Second, the signaling function, which indicates the risk of default and therefore puts a limit on debt of highly indebted entities.

Due to excessive liquidity injections into capital markets, rising prices on stock and real estate markets are not necessarily indicating anymore high future returns of enterprises and real estate projects. Instead, they reflect the abundant availability of low-cost funding. The intended side effects of excessive monetary expansion in the form of hiking real estate prices or real wage repression has created incentives for price controls, for instance for rents (given fast rising real estate prices) or in form of minimum wages (given stagnating wage increases of even falling wages for newcomers in the labor market).

Constitutive principle 2 stressed the primacy of a stable monetary order as a core prerequisite for the functioning of market economies. *Eucken* (1952) ar-

gued that a stable currency is the basis for a stable economic development, because he had observed in the past monetary instability being linked with volatile business cycles and thereby high uncertainty. He recommended an automatic regulation of money supply, as for instance ensured by a commodity-bundle standard and a 100% reserve requirement for banks at the central bank to prevent a discretionary use of monetary policy to serve partial interests.

In contrast to the ideals of *Eucken* (1952) both the German mark as well as the euro were set up as fiat currencies, with money creation being delinked from any real value. Given that since the mid-1980s the link between monetary policy decisions and consumer price inflation became increasingly weak (see for instance *Gertler* and *Hofmann* 2016), this opened the central banks the opportunity to pursue additional goals such as financial market stabilization and/or government financing without interfering with inflation targets as rule-based monetary policy approaches (*Schnabl* 2016).

The asymmetric interest path of the European Central Bank as well as the unconventional monetary policy measures, as shown in Figure 1, have come along with a historically stable harmonized consumer price index in all parts of the European Monetary Union. In sharp contrast, prices of single segments of financial markets have increased dramatically with the ECB remaining passive. In phases of rising stock, real estate and commodity prices the large central banks have been mainly inactive, claiming that financial market prices are not in the responsibility of central banks. In contrast, they have strongly responded to sharply declining asset prices.

The resulting implicit insurance mechanism against losses from declining asset prices in the face of crisis created the breeding ground for new and even larger speculation booms in other segments of international financial markets (*Hoffmann* and *Schnabl* 2011). The resulting gradual inflation of central bank balance sheets has undermined the general trust in the currency as a store of value as represented by sharply increasing and fluctuating stock, gold and real estate prices. Phases of boom and bust in financial markets have created a high degree of uncertainty, which has become an impediment to investment and growth (see section IV.).

Constitutive principle 3 stressed the need for open markets, where competition among a large number of small players works. This principle aimed at low tariffs and other trade restrictions including the exclusion of any form of anticompetitive government interventions. This should ensure allocation efficiency by bringing the production structure in line with consumer preferences. In addition, dynamic efficiency should be enhanced, as only a high intensity of competition was assumed to provide an incentive to enterprises to create temporary monopolistic rents by innovation. The imitation process following innovation should ensure incentives to generate a continuous stream of welfare enhancing innovation.

Although the world economy has achieved a high degree of international trade liberalization and thereby competition in global goods markets (in particular for industrial goods), the convergence of interest rates towards zero and the inflation of central bank balance sheets has favored a concentration process in the enterprise sector for two reasons. First, the depreciations of the currencies following expansionary monetary policy impulses created windfall profits for export-oriented enterprises. Large enterprises tend to be more export-oriented than medium and, in particular, small enterprises.

Second, the ultra-loose monetary policies changed the financing conditions for large and small enterprises in an uneven way. Because large enterprises have direct access to capital markets they could refinance directly at gradually improving conditions. Small and many medium-sized enterprises remain, however, dependent on bank credit. Because in the course of the monetary policy rescue measures the banking sector is increasingly damaged, which leads to a concentration process, the financing conditions of small and medium enterprises have deteriorated relative to large enterprises (*Gerstenberger and Schnabl 2017*). This implies that ultra-low interest rate policies trigger a concentration process in the enterprise and banking sector.

Constitutive principle 4 called for private ownership to ensure incentives to strive for profits and thereby for innovation and efficiency. *Eucken (1952)* stressed that private ownership has to come along with competition among enterprises. Otherwise private monopolies would encourage the misuse of market power at the cost of consumer welfare. Private ownership was regarded as particularly important by Ordoliberalism, because the planning economy in Eastern Germany had made the efficiency losses from state-ownership visible. *Kornai (1993)* characterized the situation in the central and eastern European economies as soft budget constraints: unprofitable enterprises were kept alive by credit provision of the state-owned banking sector to avoid the emergence of unemployment. As savings at state-owned banks were not large enough to cover the financing needs of enterprises, the funds were created by the central bank via the printing press thereby undermining the constitutive principles one and two.

Although, at a first glance, private ownership seems still warranted in all industrialized countries, the low, zero and negative interest rate policies have created quasi soft-budget constraints. While in the first phase low interest rate policies have stimulated unsustainable credit growth, investment and financial speculation (*Hoffmann and Schnabl 2011*), the bursting of the bubble made overinvestment visible and has created bad loans. Interest rate cuts in response to bursting bubbles stabilize – in the short term – the financial sector and economic activity, because the decline of asset prices and therefore the stock of bad loans are contained. Yet, in the long term a quasi-nationalization process undermines private ownership and paralyzes growth (see section IV.).

Constitutive principle 5 stipulates the freedom of contract as a prerequisite for the economic order. Freedom of contract should remain, however, restricted to the extent that perfect competition was given. Freedom of contract seems principally still the case in the industrialized countries, but growing regulation, for instance in financial and labor markets, interferes with this principle. Given that expansive monetary policy has several side effects such as undue credit growth, real estate bubbles, nominal wage repression and precarious employment for growing shares of the population (*Hoffmann and Schnabl 2016*), the regulative response to these developments in form of intervention spirals gradually restricts the freedom of contract.

For instance, the unsustainable credit growth in Southern and Western Europe prior to the European financial and debt crisis as well as the subprime boom prior to the US subprime crisis has led to dramatic bad loan problems in the European and US-banking systems. To prevent a similar financial meltdown in the future, reporting requirements and financial supervision (i.e. macroprudential measures) have been substantially extended. The higher density of financial regulation narrows, however, the freedom of contract in the financial sector. Similarly, as low-cost liquidity provision has driven upwards real estate prices and thereby rents for new rental contracts new regulations aim to contain rising rents. Further, in labor markets, as wages for new contracts are repressed and precarious employment forms flourish, minimum wages and regulations of minimum length of wage contracts aim at counter-steering this trend.

Constitutive principle 6 formulated the liability principle with a focus on the corporate sector. Enterprises are allowed in market economies to privatize profits as an important incentive for achieving efficiency and pushing forward innovation. At the same time, they are obliged to cover losses. The liability principle was intended to promote responsibility of the management towards a foresighted selection of investment projects. *Eucken (1952)* regarded stock holders to be liable for losses of enterprises and banks.

Since the mid-1980s, however, during financial crises the liability principle was increasingly hollowed out in two ways. First, collapsing financial institutions were bailed out with tax-payers' money to maintain the stability of the financial system as a whole. Bailouts could occur in form of recapitalizations or nationalizations of collapsing financial institutions. Furthermore, the take-over of insolvent banks by competitors, which is moderated by government, can be seen as a kind of hidden bail-out. In particular, if it is flanked by ample central bank liquidity provision.

Second, more indirectly asymmetric interest rate policies and the gradual expansion of balance sheets are equivalent to a circumvention of the liability principle. During financial market boom-phases central banks do not steer against financial market exuberance, allowing the management of financial institutions

to privatize windfall profits in form of high salaries and bonus payments. During crisis, however, the (potential) losses of financial institutions are prevented by sharp interest rate cuts, with the (potential) losses of financial institutions being socialized via the effects of monetary expansion. With inflation remaining low despite unprecedented monetary expansion, the costs of monetary financial stabilization measures increasingly have been showing up in declining interest rates on bank deposits and government bonds as well as in nominal wage repression for newcomers in the labor market (see *Schnabl 2016*).

Constitutive principle 7, the principle of continuity of economic policy postulated that economic policy should be reliable and predictable for market participants. The notion behind this principle was that investment is strongly dependent on the predictability of future revenues. Price stability facilitates forecasting future profits and therefore reduces transaction costs. In addition, erratic economic policy making was seen to limit competition, as the signaling function of prices is disturbed, which was regarded as an impediment to investment and growth.

Monetary policy rescue measures have undermined the continuity principle via financial markets in two ways. First, as the gradual monetary expansion has increased the likelihood of financial market bubbles and thereby has amplified the amplitude of the business cycles. As *Borio (2014)* puts it, the global business cycle seems to be driven by the global financial cycle. Exuberant booms, which are characterized by sharply rising asset prices, flourishing profits of banks and enterprises, growing wages and affluent tax revenues are followed by dramatic crises and threatening financial meltdowns. Second, monetary rescue measures help to prevent the big crashes thereby stabilizing growth in the short term. But the growing scale of monetary policy rescue measures implies growing unintended side effects and thereby accelerating intervention spirals.

Constitutive principle 8 stressed that if only all principles were fulfilled together, market forces could enfold their full power to promote investment, growth and welfare. If only one principle would be undermined this could interfere with the intended effects of others. For instance, if the principle of private ownership is fulfilled, but monopolies persist, this allows the monopolist to privatize monopolistic profits reducing the welfare of consumers. Similarly, volatile inflation resulting from a bad monetary policy has a negative impact on labor markets, as real wages are reduced, with wages no longer reflecting scarcities in labor markets. Unemployment emerges.

Today a similar case can be made with respect to the bail-in mechanism of the European banking union. At a first glance, the bail-in procedure aims to restore the liability principle, because losses of banks are to be borne by shareholders and creditors instead of the tax payer. The mechanism intends in case of financial crisis to release the government from recapitalizations of financial institu-

tions and/or central banks from monetary policy rescue measures. Yet, if at the same time an ultra-expansionary monetary policy persists (which hurts principles 1 and 7), the banking sector is damaged. The reason is that monetary policy rescue measures undermine the banks traditional source of income, i.e. the spread between lending and deposit rates (*Gerstenberger and Schnabl 2017*). In this case the bail-in procedure shifts the collateral damage of monetary rescue measures to the owners and creditors of banks. This erodes the constitutive principle of private ownership.

IV. Effects on Growth, Distribution and Political Stability

The constitutive principles for market economies of *Eucken (1952)* aimed at creating an economic order with monetary stability being a prerequisite for investment, growth, welfare and social cohesion. Given that *Eucken's (1952)* constitutional principles unleashed an economic miracle, Germany took over the role of an export-driven growth engine in post-war Western Europe. The high growth facilitated the delegation of power to the supra-national institutions in the course of the European integration process as it came along with a high degree of political stability. The gradual erosion of *Eucken's (1952)* constitutive principles by monetary policy crisis management has undermined both the German and the European growth model for three reasons.

1. Negative Growth Effects

First, the low costs liquidity provision has contributed to the decline of the marginal productivity of investment, because the allocation function of the interest rate has been undermined (*Hoffmann and Schnabl 2016*). In the neoclassical growth theory, growth originates in the accumulation of capital towards a long-term equilibrium between investment and depreciation (*Solow 1956, Swan 1956*). This steady state is based on the assumption that the marginal efficiency of capital declines, when the capital stock increases. Growth beyond this steady state is only possible, when innovation (i.e. technological progress) takes place, which ensures productivity growth in the long term (*Solow 1957*).

In such a neoclassical framework, low interest rates and quantitative easing have a negative impact on innovation and productivity gains, because incentives for innovation and efficiency gains are subdued. *Sekine, Kobayashi and Saita (2003)* find for Japan forbearance lending: Banks continue to provide irrecoverable loans to keep themselves and (potentially) insolvent companies alive. Similarly, *Peek and Rosengren (2005)* associate Japan's central bank crisis management with a misallocation of capital via the credit sector, which keeps companies with poor profit prospects alive ("evergreening"). The result is quasi-soft

budget constraints as enterprises and banks remain dependent on the low-cost liquidity provision of the central bank.

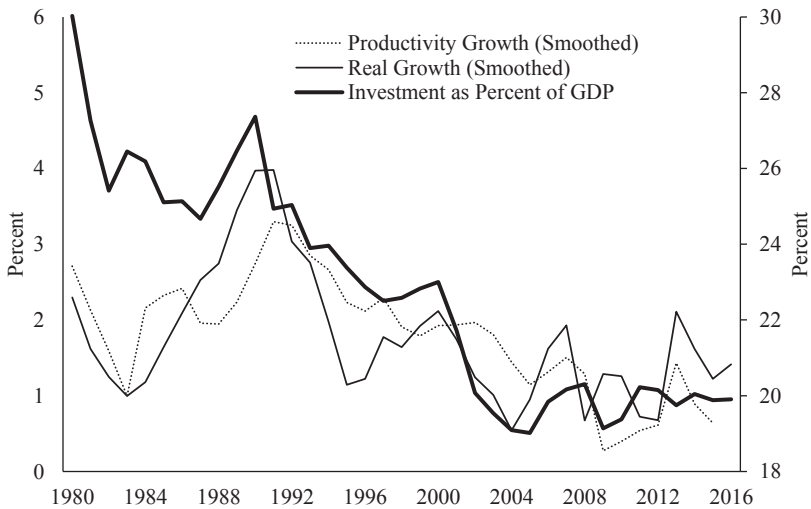
Quian and Xu (1998) showed for China that such soft-budget constraints made it harder to separate profitable from unprofitable projects as the selection mechanism of the market was undermined. *Caballero, Hoshi and Kashyap* (2008) argued for Japanese – what they call – “zombie-companies” that under zero interest rate policies profits have become dependent on cheap central bank liquidity provision via “zombie banks”. The outcome has been a quasi-nationalization of the banking and enterprise sectors, as unconventional monetary policies have been continuing and are expected to continue over a long-time period.

Leibenstein (1966) sees motivation and incentives as major determinants of a dynamic concept of efficiency, which goes beyond static allocation efficiency. Enterprises do not realize all possible efficiency gains when competition is limited or alternative windfall profits are generated. Such X-inefficiency can be created by low interest policies and quantitative easing, because financing costs are gradually reduced. Over the course of time the European Central Bank has cut the costs for financing via bank credit and the capital market. Given that asymmetric monetary policy has also inflated stock prices, costs of equity have structurally declined as well. Assuming that the expected return of an enterprise is constant, growing profits resulting from cheaper financing costs reduce the pressure to generate profits from innovation and efficiency gains.

Second, the monetary policy crisis management of the European Central Bank has affected banks and enterprises in different ways contingent on the size. Large enterprises can be assumed to have gained more than medium and small enterprises, because they have direct access to capital markets via bond financing and the emission of stocks. In addition, as large enterprises tend to be more export-oriented than small and medium enterprises, they have profited more from the depreciation effects of ultra-low interest rate policies and quantitative easing.

In contrast, small and medium enterprises remain dependent on bank financing. With banks being increasingly damaged by central bank crisis management, also their ability to provide credit to small and medium enterprises has been restrained. This is even more the case, if outstanding credit to inefficient enterprises is prolonged. Then, credit conditions for new, more profitable investment projects are tight. The outcome is a concentration process in the enterprise sector, which accelerates, if stock market booms go along with exuberance in the markets for mergers and acquisitions. The concentration process in the enterprise sector comes inevitably along with a declining degree of competition.

By tying resources to sectors with low or negative productivity gains (as distorted economic structures are conserved) or by reducing the degree of competition because of an increasing degree of concentration in the economy, in the



Source: OECD, Cabinet Office (Japan), BEA, Eurostat. Investment as percent of GDP.

Figure 2: Investment, Productivity Growth and Real Growth in Germany

context of the Solow-Swan model a negative allocative effect is created by declining average productivity (defined as output per unit of labor). Less goods and services are produced with a constant amount of labor. Since declining output also entails a decrease in savings per worker, an additional negative growth effect is the result, because households make fewer savings available for investment. Declining levels of household savings have been observed in all large industrialized countries, because private savings have been discouraged by declining deposit rates (Schnabl 2016). The result is from Eucken's (1952) point of view declining investment, shrinking productivity gains and sluggish growth as it is observed in all large industrialized countries and as shown in Figure 2 for Germany.

The ultra-expansionary monetary policy is becoming persistent, because any increase of interest rates by the European Central Bank would force European governments to tighten expenditures, because the burden resulting from interest rate payments on public debt would strongly increase. Even in Germany, the growth of debt service would interfere with the large expenditure obligations, which have been created based on the regulative principles, i.e. extensive expenditures linked to social security, environment protection and efforts to ensure the cohesion of the European (Monetary) Union. With other words the regulative principles seem to have become the gateway for the destruction of the constitutive principles.

2. Effects on Income Equality

Third, productivity growth is a prerequisite for real wage growth. With productivity growth converging towards zero, also the scope for the real wage increases become small. If under these circumstances monetary policy has redistribution effects towards specific groups, other groups inevitably loose. *Cantillon* (1931) stressed the redistribution effects of monetary expansion in favor of the financial system. If money supply is expanded by the central bank, the commercial banks not only benefit from accelerating credit growth. They can also purchase real estate, stocks and securities etc. at still constant prices. If the sellers of these assets use or provide the received funds for new purchases in these asset classes, real estate, stock and security prices have already increased. The result is a redistribution in favor of the financial sector. This redistribution is further enhanced if during the financial crisis, the decline of asset prices is prevented by monetary policy rescue measures.

From a more general perspective, if asset prices are influenced by the central banks in an asymmetric way, i.e. being pushed up by low-cost liquidity provision both during the boom and during the crisis, the agents holding large shares of these asset classes gain. This is usually the richer part of the population, which is intertwined with the high-income classes. For instance, the share of the top 1% income class out of total income in the United States has increased since the advent of asymmetric monetary policies in the mid-1980s from around 10% to currently around 22%.

Given that asymmetric monetary policies have inflated real estate prices in most major industrialized economies, a wedge is driven into the societies via the real estate prices (*Baur* 2017). Whereas incomes of young people entering the labor market have tended to stagnate or to decline compared to the elder generations, real estate prices have strongly increased. Since an increasing share of young people work in precarious employment forms they have a lower likelihood to have sufficient collateral for low-interest real-estate financing. In contrast the elder generations, which have acquired real estate earlier, profit from substantial revaluation gains. At the same time, wages of the elder generations remain at a high level as their wage contracts still allow bargaining for wage increases. Their expenditures for rents are contained by administrative rent controls. In contrast, rents for the younger generation increase.

The upshot is that moving up the social ladder – for instance from the dishwasher to millionaire – has become difficult. Wealth can be only built if it is inherited or is earned in some segments of financial markets (e.g. investment banking). Social cohesion as one basic regulative principle of the social market economy is undermined. *Müller-Armack* (1966: 243) had stressed that the market principles had to be combined with social balance. He defined three dimen-

sions of the social state: the market forces, Ordnungspolitik, and redistribution. Whereas redistribution has reached an unprecedented dimension in Germany and other European countries, financed by high tax revenues and hidden government financing via the central banks, the first two dimensions of *Müller-Armacks'* (1966) social balance are increasingly put into question.

The positive social consequences of the market itself, which achieves high growth via static and dynamic efficiency, has been undermined in a dramatic way by monetary policy crisis management as productivity gains are subdued. The economic structure is decreasingly determined by consumer preferences, but increasingly by the political decisions about the allocation of funds collected via taxes and government bond purchases of the central bank. Major goals of Ordnungspolitik, for instance the allocation and signalling function of prices and interest rates as well as competition, have been gradually undermined, thereby questioning the social cohesion due to the far-reaching redistribution effects of ultra-low interest policies. The growing wedge in the German society is – like in many other industrialized countries – the breeding ground for growing dissatisfaction, in particular in the middle class. As a consequence, the political landscape is increasingly polarized. The political parties, which have been the basic stabilizing pillars of the German social market economy, continue losing stake.

V. Wither “Social Market Economy”?

It has been argued, that the very expansionary monetary policy of the European Central Bank is at odds with the constitutive principles of the social market economy including wider goals such as social cohesion and political stability. The German market economy is increasingly dysfunctional, since price signals on capital markets are distorted. The principle of open markets is under stress, since the ECB's monetary policy has two negative effects: it supports large firms and banks at the expense of small ones and sets incentives against innovation and efficiency gains thereby paralyzing growth. Governments get addicted to low interest rates, time does not have a price anymore, sustainable fiscal policy is no longer politically attractive.

As a side effect, small and efficient banks are under threat, so that they do not grant fresh credits for young firms. Instead, zombie banks are financing zombie firms. This prevents innovation and structural change, which would be urgently needed to create new jobs and economic growth. As the negative incentives of low interest rate policy on private investors put increasing pressure on governments to create employment via public demand and economic nationalism, the freedom of contract as well as competition continue to diminish. In line with *Hayek* (1944) the gradual loss of economic freedom seems to be followed by a

gradual loss of political freedom with the political landscape being increasingly polarized.

In particular, the social and political consequences of the very expansive monetary policies should be reason enough to exit from the very expansionary monetary policy better sooner than later. As central banks continue to drive a wedge between the old and the young as well as between the rich and the poor, social cohesion, which has been one of the main goals of the German social market economy, is at risk. This is also the case for the partner countries in the European Union, because the redistribution effects of the ECB's monetary policy are similar in all member states of the European Union. Furthermore, if growth in Germany is paralyzed, also growth in whole Europe is declining.

Therefore, the timely exit from ultra-expansionary monetary policy is recommended. Asset purchases of the European Central Bank should be phased out in a timely manner and interest rate increases should take place at a slow pace to facilitate adjustment, but in a decisive way. This would force over-indebted governments to push forward structural reforms. Banks would have to clean up their bad loans and to reconstitute their traditional business model of financing investment projects with high expected returns. This would necessitate enterprises to intensify efforts for innovations and efficiency gains. The resulting increase in productivity gains would make real wage increases possible again, which would contribute to a political stabilization in Europe. This is in the very interest of all European citizens.

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