

## The commodity reserve currency chapter: Friedrich A. Hayek, John Maynard Keynes, and the International Monetary Order

*O capítulo da moeda baseada em reservas de commodities:  
Friedrich A. Hayek, John Maynard Keynes  
e a Ordem Monetária Internacional*

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RESUMO: O choque frontal nas páginas da *Economica* entre Friedrich A. Hayek e John Maynard Keynes em 1931 foi singular em escala e influência. Apesar deste evento ter tido intensas repercussões na profissão como um todo, em 1943 ocorreu um episódio menos conhecido envolvendo ambos. Hayek e Keynes entraram em controvérsia sobre as refundações do sistema monetário internacional no pós-Segunda Guerra Mundial e a proposta da moeda baseada em reservas de *commodities*. Esse *round* foi negligenciado, mas é historicamente relevante, já que foi o único debate público com engajamento ativo de ambos os lados em uma revista profissional depois de 1931. Ademais, o mesmo é representativo da relação madura pessoal e intelectual de Hayek e Keynes, marcado por convergência, diálogo e amizade. Essa colaboração foi particularmente desenvolvida quando a London School of Economics (LSE) teve de ser evacuada para Cambridge durante a Segunda Guerra Mundial e Keynes arranhou acomodações para Hayek no King's College, Cambridge.

PALAVRAS-CHAVES: Friedrich A. Hayek; John Maynard Keynes; Benjamin Graham; moeda baseada em reservas de *commodities*; sistema monetário internacional.

ABSTRACT: The frontal clash in the pages of *Economica* between Friedrich A. Hayek and John Maynard Keynes in 1931 was unique in scale and influence. Although this event had intense repercussions on the profession as a whole, in 1943 occurred a less discussed episode involving both men. Hayek and Keynes entered into controversy regarding the re-foundations of the international monetary order post-Second World War and the commodity reserve currency proposal. This round was somewhat neglected but is historiographically relevant since it was the only public debate with the active engagement of both sides in a professional journal after 1931. Moreover, it epitomized the personal and intellectual

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mature relationship of Hayek and Keynes, marked by convergence, dialogue, and friendship. This collaboration was particularly developed when the London School of Economics (LSE) evacuated to Cambridge during the Second World War and Keynes found rooms for Hayek in King's College, Cambridge.

KEYWORDS: Friedrich A. Hayek; John Maynard Keynes; Benjamin Graham; commodity reserve currency; international monetary system.

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## INTRODUCTION

The controversy between Friedrich A. Hayek and John Maynard Keynes on the causes of business cycles and economic depression in the early 1930s was a titanic event that shaped the paths of both social and economic theorists (see Hayek, 1931a, 1931b, 1931c, 1932, 1995; Keynes, 1930, 1931b). However, a surprisingly neglected episode in the historiography of economics is the 1943 debate between Hayek and Keynes on the post-Second World War international monetary order and the commodity reserve currency proposal in the pages of the *Economic Journal*.

Although the scope and proportions of the 1943 debate on the commodity currency reserve proposal are very circumscribed in comparison with the significant 1931 controversy between Hayek and Keynes, the episode is relevant because it is the only public and direct confrontation in a professional journal with the involvement of both sides after the first round in 1931. In some sense, if we define each round as a direct and public confrontation in a professional journal with an active engagement of both economists, this can be considered the second round between Hayek and Keynes. All their other intellectual disputes and policy confrontations in the 1930s and 1940s occurred in an indirect form of battle. That is, they took place not in direct critiques with responses by each side, be that in the public media or professional journals.

Therefore, for instance, Hayek did not review Keynes' *magnum opus*, *The General Theory of Employment, Interest, and Money* (1936), when it appeared in February 1936. This fact is more surprising when we consider that Keynes ([1936] 1973, pp. 39, 60, 79-80, 192) mentions Hayek directly at least four times in the book (e.g., see Caldwell, 1988; Telles, 2022, pp. 66-7). Nevertheless, although Hayek did not review Keynes' book or wrote a critical note on some themes that he was puzzled about in *The General Theory*, he nonetheless will react to Keynes' new theory of aggregate income determination and liquidity preference interest rate in some detail in his book on *Profits, Interest and Investment* (1939a) and part IV of *The Pure Theory of Capital* (1941).<sup>1</sup>

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<sup>1</sup> Indeed, Hayek (1994, p. 79) lamented that part IV had become somewhat condensed and sketchy due to the urgency of publication in the context of the Second World War (e.g., see Caldwell, 1998). Also

In these works, Hayek was explicit in his critical reaction to Keynes' *General Theory*. *Nonobstant*, there is no direct public exchange between Hayek and Keynes. Thus, in "Profits, Interest, and Investment," the opening essay in his 1939 book, Hayek assumed labor unemployment and capital goods specificity in addition to factor immobility in the short period and downward money wage rigidity, as Keynes had assumed. In this case, Hayek argued that other adjustment variables gained prominence that contributed to his vision of the business cycle phenomena as a problem of the structure of production caused by an intertemporal coordination failure. In particular, the movements of profits and real wages would indicate the profitability differences in each stage of the capital structure.

In the case of private exchanged letters, of course, there is no public debate. Keynes read *Profits, Interest and Investment* (1939a) and a brief correspondence with Hayek started between 20 September and 20 October 1939. However, this is not a proper instance of public debate as we defined it. As Bruna Ingraio (2005) put it, it was a private controversy. In addition, there are public confrontations or endorsements by Hayek on Keynes' policy prescriptions, such as Hayek's extremely positive and endorsing review of Keynes' pamphlet *How to Pay for the War* (1940). The other public media articles are one against the interest rate policy in the war in *The Banker* and one supporting Keynes' plan to finance war costs in "Mr. Keynes and War Costs" in *The Spectator* (see Hayek, 1939c, 1939d, 1939e).

The 1943 controversy on the commodity reserve currency and the new international monetary order is important mainly because it illustrates some grand lines of philosophical agreement and at the same time practical disagreement between Hayek and Keynes. It is a representative historiographical intellectual stylized fact of the nature of their mature relationship and the convergences and intersections shared in their economic, philosophical, and social thought. An illustrating example of the neglecting of this controversy in the secondary literature is Jack Birner (1997, p. 1), which says that after 1931 Hayek and Keynes never "crossed swords in a comparable head-on collision in public," mentioning in a footnote that, "[m]uch

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sacrificed were the various appendices on controversial themes "in recent years" that he intended to deal with in detailed discussion. Of course, Hayek referred to the Keynesian revolution. In *The Pure Theory of Capital*, Hayek develops a detailed critique of Keynes' liquidity preference interest rate theory. Hayek (1941) did not dispute that liquidity preference loosens the connections between the interest rate and the return or profitability rate. However, he sustains that the role that liquidity preference plays in the monetary market is small. In his 1941 book, the natural interest rate is defined, *à la* Knut Wicksell, as the profit or return rate that equilibrates at the same time the loan funds market for a given saving rate and the money market. In his view, the interest rate is insensible to variations in the profitability of investments only in the extreme case where the liquidity preference or the propensity to hold money is perfectly elastic. For Hayek, this extreme case is not empirically relevant to a *general* interest rate theory since it applies only to the depths of depression. This reinforces the character of a tract for the times in Keynes' book, a set of ideas greatly needed in the 1930s. For this reason, Hayek ([1966] 1978, p. 297) blamed Keynes for having called such a tract for the times as *The General Theory*.

later, they had a controversy in public about the financing the war, in a few articles in *The Banker*” in 1939.<sup>2</sup>

The episode is also generally neglected in most of the secondary literature on Hayek and Keynes (e.g., Carabelli and De Vecchi, 1999, 2001; Steele, 2001; Butos, 2003; Butos and Koppl, 1997, 2004; Skidelsky, 2006; De Vecchi, 2006; Caldwell, 2011; Sousa, 2021). The only place in which it appears with some relevance is in the book *A Tiger by the Tail: The Keynesian Legacy of Inflation* (1972), a Hobart Paperback of the Institute of Economic Affairs compiled by the Indian economist Sudha R. Shenoy. This short book is a collection of critical notes and excerpts that formed a direct response to Keynes and Keynesian economics that Hayek himself never fully gave.

## THE BATTLE OF BRETTON WOODS: THE DEBATE ON THE POST-WAR INTERNATIONAL MONETARY SYSTEM

The commodity currency reserve scheme is centered on the broad discussion of the international monetary order reconstruction after the Second World War. As Benn Steil documented in his book *The Battle of Bretton Woods* (2013), political interests, controversies, and rivalry permeated the creation of the post-war international economic order. The agreement was substantially the institutionalization of the American Treasury geopolitical agenda.

The United States dollar would lead supreme in its privileged position within the international monetary system as the world’s currency reserve (i.e., with the dollar being convertible in gold between countries). In this process, the British economic and political power was greatly diminished or eliminated. It was the creation of America’s “*privilège exorbitant*,” a critical term coined by Valéry Giscard d’Estaing, then the French Minister of Finance in the 1960s (e.g., see Eichengreen, 2011).

During the war years, Keynes was in the public service at the British Treasury. As the war was signaling its end, Keynes and the economics profession started to think about the most appropriate international monetary institutions to prevent the economic consequences that in part had led to war, in particular, the dangers

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<sup>2</sup> In fact, this “controversy” mentioned by Birner did not happen. In September 1939, Hayek published an article on “Prices and Rationing” (1939c) arguing that the price system was a better institutional mechanism to determine the relative cost of scarce materials, therefore their importance, than government rationing. In general, Keynes indeed was more optimistic about the planning capacity to allocate essential resources to the war effort. However, Hayek was mainly reacting to an article by Richard W. B. Clark published in a previous edition of *The Banker*. In his second article, which appeared in October 1939 as “The Economy of Capital” (1939d), Hayek was reacting to Keynes’ policy recommendation to maintain low long-term interest rates in a full-employment wartime scenario. Hayek (1939d, p. 39) was possibly referring to Keynes’ article “Borrowing by the State,” published on July 24 and 25, 1939, in *The Times*. “It is often believed, and has been explicitly argued by J. M. Keynes that if the use of all resources [...] is effectively controlled, there is no further problem of the economy of capital.”

of depression as well as inflation. In his influential book *Golden Fetters: The Gold Standard and the Great Depression* (1992), for instance, the economic historian Barry Eichengreen argues that the gold standard prevented the appropriated expansionary monetary policy by national central banks (in particular, the Federal Reserve System) to attenuate the depression.

Eichengreen's book title evokes Keynes' famous words in an article for *The Sunday Express*, "The End of the Gold Standard," published on September 27, 1931. "There are few Englishmen who do not rejoice at the breaking of our gold fetters. We feel that we have at last a free hand to do what is sensible. The romantic phase is over, and we can begin to discuss realistically what policy is for the best." This was soon after Britain, in the depths of depression, abandoned the gold standard on September 21, 1931.

In this context, one well-received proposal of international monetary reform was the reserve currency based on buffer stocks of primary commodities by Benjamin Graham, the acknowledged father of value investing. Graham started to develop this idea during the American Depression of 1921-22, where prevailed at the same time an excess supply of raw materials (which lead to catastrophic price falls) and insufficient purchasing power expressed in unemployment of labor and capital. Graham (1933) first expressed his idea in an article on "Stabilized Reflation" to the New School of Social Research's short-lived journal *Economic Forum*. The scheme was further developed in his 1937 book *Storage and Stability* (1937), inserted in the general principle of the "Margin of Safety" that demarcates the line between investment and speculation.

Surprisingly, Graham (1996, p. 293) acknowledged the commodity currency scheme as his most important idea. "If my name has any chance of being remembered by future generations it will be as inventor of the [...] Commodity Reserve Currency Plan." Although the plan initially was proposed for national monetary reform, Graham naturally extended it to the global economy as an international system in his second book, *World Commodities and World Currency* (1944a). Indeed, he expected that his scheme would be part of the Bretton Woods discussions (see also Graham, 1941, 1944b).

The basic idea was to replace the gold standard with an international monetary standard based on a predetermined basket of raw commodities, which would form the "commodity unit" – a basket of at least twenty-five high standardized, durable, and low storage costs commodities. In this mechanism, raw commodities reserves would act much better as buffer stocks, especially regarding deflationary pressures. At the same time, they would attach money to a real commodity unit with growth constraints. The buffer stocks, Graham (1937, pp. vi-vii) argued, are "intended primarily to cope with glut and shortage." The scheme would be much more efficient and "suitable backing for a sound and adequate currency" since "[t]he unique prestige of the gold standard has been deeply undermined" and "[a] currency backed by, and actually redeemable in, stored basic commodities would possess an intrinsic soundness superior to that of gold."

Keynes (1938) warmly received these preliminary ideas on buffer stocks, a

theme that always had his profound attention. Indeed, John Woods (2022) maintains that the most important part of Graham's plan was the emphasis on the stabilizing aspects of the raw commodities buffer stocks. As Graham (1937, p. 67) writes, a mechanism based on buffer stocks and storage "will result in stabilising the general price level for basic commodities and will supply a sound form of currency secured by these necessary commodities." The commodity currency standard was also independently developed by the Princeton economist Frank D. Graham (1940, 1941, 1942), which emphasized the gains of replacing an inelastic single commodity reserve such as gold for a multi-commodity basket reserve as a pro-full-employment policy, since it would be more elastic in counter-react changes in the money velocity and monetary contraction.

In the early 1940s, Keynes *prima facie* changed his mind on the benefits and practicality of a commodity currency reserve. Keynes and the German economist Ernst F. Schumacher started to develop several embryonic ideas for a supranational currency named Bancor (bank gold) that was supposed to exercise only the international unit of account function and trade clearing. This would become the official United Kingdom proposal at Bretton Woods in 1944. In this standard, each national currency would be linked by a fixed rate of exchange to the international currency Bancor. Bancor would be used in all international trade and exchange among nations as a common unit of account inserted in an International Clearing Union (ICU) that was meant to perform the central multi-clearing house task for all countries.

The international unit of account would be used in all international financial transactions and flows of capital, assets, and income via the ICU. Bancors were not supposed to be transacted among individuals or to be held as money assets. All international relations should be valued and transacted in Bancors. The main feature of this proposal was that correction mechanisms would act symmetrically in countries with surplus trade and Bancor assets and countries with trade deficits and Bancor liabilities to approach the approximately zero balance equilibrium. In May 1943, Schumacher published the article on "Multilateral Clearing" (1943) in *Economica*, but the paper was already in private circulation since November 1942. Furthermore, in May 1943, the proposal formalized the idea and set the basis of Keynes' (1943a) plan for an International Clearing Union, published as the British government's White Paper in the House of Lords.

According to Keynes, international liquidity problems and deflationary pressures would be present in the post-war international monetary order – in the same way as experienced in the 1920s in Britain after the First World War. Keynes' proposal intended to manage international aggregate demand failures that could result from countries' balance of payments disequilibrium. In the old international monetary order, problems in the balance of payments created an asymmetrical pressure for adjustment in deficit countries. The passive and privileged surplus countries could maintain a passive position in accumulating international reserves. It forced only deficit countries (generally undeveloped and raw commodities exporting countries) to respond appropriately to counterbalance the disequilibrium, notably with recessive and contractionary demand policies.

In this scenario, with aggregate demand contraction by the deficit countries and accumulation of international reserves by the surplus countries, deflationary pressures would be a global norm. The International Clearing Union framework dissuades the accumulation of international reserves in Bancors, Keynes argued, thus sending the right adjustment incentives in the surplus countries to inflation in their respective economies. On 13 March 1943, Hayek sent a letter to Keynes containing a “semi-popular exposition of the American commodity-currency scheme” to rebuild the international monetary system and wondered if the article could be published in *The Times*. One week later, on 21 March, Keynes wrote to Hayek recommending that the draft should be published in the *Economic Journal*.

The article appeared in the June-September 1943 issue of the *Economic Journal*, as “A Commodity Reserve Currency” (1943). In his essay, Hayek reaffirmed the basic idea of substituting gold as a reserve commodity for a multi-product raw commodities basket. In the same 21 March commending letter, Keynes acknowledged that Hayek’s arguments were theoretically correct. However, Keynes argued that the plan was not politically viable in the current international conditions. “Theoretically,” Keynes wrote, “your points are sound. Practically I do not believe that the world is ripe for this sort of thing.” Instead, Keynes favored testing schemes to stabilize staple goods prices in the form of “buffer stocks plans and the like” (see Ingraio, 2005, p. 246).

Nevertheless, Keynes’ note attached to Hayek’s article in the *Economic Journal* was more critical in tone. Keynes criticized the nature and practical viability of such proposals, arguing that stabilizing the price level should be a domestic matter subject to national political discretion and domestic policies. Keynes maintained that the scheme proposed by Hayek implies the imposition of a stable price level from without, violating national sovereignty regarding different monetary policies and forcing a deflationary policy to equilibrium when necessary. After Keynes’ critical note, in 1944, Frank Graham surveyed the controversy and criticized Keynes’ imposing view on Hayek. Finally, Keynes stepped back and occupied a more pondered position on the debate, admitting that he could have misrepresented Hayek’s intentions. In the following sections, we review this controversy in detail.

## HAYEK’S PROPOSAL FOR “A COMMODITY RESERVE CURRENCY” (1943): REJECTING MONETARY NATIONALISM IN FAVOR OF AN INTERNATIONAL STABILITY

In 1937, Hayek published *Monetary Nationalism and International Stability* (1937) based on five lectures delivered at the Institut Universitaire de Hautes Etudes Internationales in Geneva. In Hayek’s view, uncoordinated national monetary policies lead to great dangers. Indeed, the uninhibited pursuit of monetary nationalism was one of the causes of the prolonged agony of the Great Depression in the early 1930s. Beggar thy neighbour policies were widely adopted after the Wall Street



Crash of 1929 as a form to alleviate the economic depression and unemployment. The most famous example is the Smoot-Hawley Tariff Act of June 1930.

Nevertheless, Hayek was also conscious of the difficulty and costs of international coordination and that the old mixed system, which he called the “gold exchange standard” or “gold nucleus standard,” had several failures. Hayek (1937, p. 4) defines monetary nationalism as “the doctrine that a country’s share in the world’s supply of money should *not* be left to be determined by the same principles and the same mechanism as those which determine the relative amounts of money in its different regions or localities.” The leading exponent of monetary nationalism, Hayek (1937, p. 2) argued, was no one less than Keynes, who just one year earlier greatly supported freedom in national monetary policies in his *General Theory*.

In “A Commodity Currency Reserve” (1943, p. 176), Hayek starts his proposal by emphasizing the merits and advantages of the international gold standard. In his opinion, the gold standard in its pre-First World War form had several significant defects. However, it is unwise to condemn its failures without looking for alternatives. Although Hayek demonstrates sympathy for a global international currency unit along Keynes’ lines, he is skeptical of its feasibility. “A wisely and impartially controlled system of managed currency for the whole world [*à la* Keynes] might, indeed, be superior to it [gold standard] in all respects. But this is not a practical proposition for a long while yet.” Therefore, alternative options lie within various institutional schemes of monetary management on a national scale.

In this context of national scale arrangements, Hayek (*ibid.*) writes, the gold standard had three advantages. (i) The gold standard “created in effect an international currency without submitting national monetary policy to the decisions of an international authority,” i.e., it creates an international monetary order that preserves the national autonomy and dispenses a decision-making central committee; (ii) “it made monetary policy in a great measure automatic, and thereby predictable,” i.e., it prevents unexpected discretionary policy that can affect the monetary system stability; finally, (iii) “the changes in the supply of basic money which its mechanism secured were on the whole in the right direction.” The gold standard acts qualitatively in the right direction when the demand for money rises or falls, even though it does not act in the right quantitative intensity, i.e., the gold price elasticity of demand is low.

According to Hayek, these advantages are not trivial ones. The difficulties that the problem of deliberate international coordination demands cannot be underestimated, especially because of the complexities of coordinating national entities in an international order. “The difficulties of a deliberate co-ordination of national policies are enormous, because our present knowledge gives us unambiguous guidance in only a few situations.” Thus, conflicting national interests in crucial ambiguous and subjectively perceived decisions is a major difficulty to overcome. On the other hand, “[u]ncoordinated national policies, however, directed solely by the immediate interests of the individual countries, may in their aggregate effect on every country well be worse than the most imperfect international standard” (p. 176).



Naturally, the problem is establishing the best institutional architecture to coordinate individual countries' conflicting interests. The gold standard to some degree can surpass this problem because the policy derivative is guided by known impersonal rules that can be expected and foreseen by the national players. In addition, the fact that the gold supply is encouraged when the price rises, and vice versa, also acts in the right direction of stabilization of its value, even with its inherent defects in practice. This last point is perhaps the main defect of gold as a commodity reserve. The "really serious objection," in Hayek's (1943, p. 177) opinion, is the "slowness with which its supply adjusts itself to genuine changes in demand."

The inelasticity of gold to fluctuations in demand causes time delays in the supply response to changes in demand. Often supply only becomes available when it is not needed anymore, accentuating the economic fluctuations tendencies during the business cycle. Moreover, the gold supply response to a temporary increase in money demand remains a permanent change in gold stock. As money demand fluctuates, the gold standard provides the basis for excessive expansionary policies when the gold demand is transitory. The gold supply inelasticity is deflationary when temporary increases in demand occur, being inflationary when the delayed supply responds to the temporary increase in demand. This causes the logical paradoxical feature of the gold standard, namely, "the fact that the striving of all individuals to become more liquid did not put society into a more liquid position at all" (Hayek, 1943, p. 178).

The same problem is present with effective demand failures caused by hoarding, epitomized in Keynes' parable of the widow cruze in his *Treatise on Money*. This is a situation where the horizontal sum of individual rational decisions leads to a discoordination in the social and aggregate levels. Note the similarity of the gold standard discoordination "paradoxical feature" due to knowledge failures with Keynes' argument regarding the individual rational decision to save and the effective demand failure with an aggregate intertemporal discoordination result. The coordination failure element in the use of knowledge in the passage of the individual analysis to the aggregate level is essentially the same.<sup>3</sup>

According to Hayek (1943, p. 178), a more rational monetary system is one in which if the liquidity preference rises the whole society can be put in a more liquid position. This can be done by the change of production being measured in less useful illiquid commodities (like gold) to more useful liquid commodities, things "which will be needed in all conditions, such as the most widely used raw materials. The true irony of the gold standard is that under its rule a general increase in the desire for liquidity leads to the increase in the production of the one thing which can be

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<sup>3</sup> This was the so-called paradox of savings that Hayek reacted to in his presentation to *Privatdozent* at the University of Vienna, "Gibt es einen 'Widersinn des Sparens?'" (1929a), later published in the first volume of *Zeitschrift für Nationalökonomie*. In May 1931, the article was also published in English as "The Paradox of Savings" ([1929b] 1931) in *Economica*, translated by Nicholas Kaldor and Georg Tugendhat.

used for practically no other purpose than to provide a liquidity reserve to individuals.”

The advantages of the gold standard, Hayek (1943, pp. 176-7) reminds us, are not “directly connected with any property inherent to gold. Any internationally accepted standard based on a commodity whose value is regulated by its cost of production would possess essentially the same advantages.” What made gold the international commodity standard was a certain irrational prejudice toward this metal and its value, which made it the most acceptable commodity. This irrational prejudice was the basis on which an international monetary system could be built and operated “at a time when any international system based on explicit agreement and systematic co-operation was out of the question.”

Indeed, Benjamin Graham (1937, p. 11) also highlights the superstitious character of gold as the constituent and denominator of wealth. In short, “we have formed individual concepts of what constitutes wealth, and what forms of wealth are preferable to others, which have no support in concrete realities, and which depend for their validity on the persistence of a fundamentally irrational mass psychology.” Graham (1937, p. 146) also emphasizes the benefits of an automatic currency *vis-à-vis* a managed currency. The problem is to find a better suitable arrangement to the old gold standard. “In the conflict between ‘hard money’ and ‘soft money’, we are definitely on the side of hard money. In the conflict between a ‘managed currency’ and an automatic currency, we are definitely on the side of an automatic, self-generating and self-liquidating currency, free of management and political pressure.”<sup>4</sup>

The public psychological perception of gold and its merits as an international standard was very shaken by its failure in the post-Great War in the 1920s and 1930s. Hence, it was important to think of new alternative systems that preserved the advantages of an automatic and impersonal international standard (such as the gold standard) with the exclusion from the particular defects of gold as a single commodity reserve. A more rational scheme, therefore, is the use of many raw commodities as a reserve currency, along the lines of the proposal of Benjamin Graham and Frank Graham.

The idea, Hayek explains (1943, p. 179), “is that currency should be issued solely in exchange against a fixed combination of warehouse warrants for a number of storable raw commodities, and be redeemable in the same ‘commodity unit’ \$100, e.g., instead of being defined as so and so many ounces of gold, would be defined as so much wheat, *plus* so much sugar, *plus* so much copper, *plus* so much rubber, etc., etc. Since money would be issued only against the complete collection

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<sup>4</sup> In Hayek’s view, the international gold standard is a notable example of an emergent coordination order within an evolving institutional architecture. Remind that, in his opinion, perhaps the greatest example of spontaneous order is the creation of money itself, classically described by the founding father of the Austrian school Carl Menger in his *Grundsätze der Volkswirtschaftslehre* (1871). This spontaneous order notion is one of the major differences between the coordination and knowledge approaches between Hayek and Keynes.

of all the raw commodities in their proper physical quantities (twenty-four different commodities in Mr. B. Graham's plan), and since money would also be redeemable in the same manner, the aggregate price of this collection of commodities would be fixed, but only the aggregate price and not the price of any one of them."

These different raw commodities would be connected with money in fixed proportions and not in the way as bimetallism where it is possible to change a unit of only gold or silver via an exchange rate to a unit of money. Rather, it is close to Alfred Marshall's (1887) suggestion of symetallism where only a certain fixed weight of gold *and* silver at a certain fixed price could be exchanged by a money unit with the individual price of each metal flexible. In this arrangement, the commodities elasticity that formed the multi-product fixed reserve basket would be high to respond to money demand changes. Money demand increases would not produce time lags nor fluctuations tendencies in the business cycle.

The impersonal mechanism would still act in the right direction (as the gold standard) but, more importantly, it would operate with the appropriate velocity toward stabilization. Moreover, the increased demand for liquid assets in a scenario of high uncertainty would be fulfilled by the accumulation of buffer stocks defined in the fixed multi-product basket. Since these commodities are always in great general public demand (i.e., they are of the most general usefulness) and would not permanently increase the reserve stock as in the case of gold, the system will be much more stable.

The raw commodities stocks regulate the aggregate index price level. As a money unit can always exchange for commodities unities, the general aggregate consumers' index price level can never fall below this fixed proportional exchange (due to arbitrage). In addition, the aggregate price of the fixed collection of raw commodities will never rise – as long as the monetary authority can use the buffer stock reserves and quickly sell or buy the commodity unit at the fixed price.

Although the commodity reserve currency plan was initially designed by Benjamin Graham primarily for the United States and later expanded to an international system in his 1944 book, Hayek (1943, p. 180) states that this "plan not only could, but, to achieve its ends, ought to be adopted internationally – or, what comes in practice to the same thing, that it ought to be operated on the same principle by all the major countries."

The most favorable period for the scheme implementation is in a period of slackness, i.e., when a fall in demand is threatened. The arrangement can be designed to automatically enter into practice in such a context by fixing beforehand a buying price for the multi-product basket commodity unit slightly below the market value. When slackness hits the raw commodities market and deflationary pressures come to prices, the national monetary authority will buy any commodity units that cannot enter the market at the fixed established price of exchange.

These purchases will create for all the money accumulated in public hands a corresponding amount of raw commodities units in warehouses. In this way, the aggregate monetary demand for commodities for all economic segments is stabilized. It is important to note that this process generates a general and spread demand for

the multi-product raw commodities basket – and not for any particular individual commodity. The commodities industry can sustain more aggregate income since it is a significant industry in the economy, contrary to the gold mining industry. Thus, the system also has significant counterbalance effects on aggregate income in recession periods.

In Hayek's vision, one of the great merits of the commodity reserve currency is the checks and constraints on monetary overexpansion. The system does not permit expansion which leads to generalized and permanent rises in consumers' prices. Note that the sustainability and effectiveness of this proposal are based on its implementation during a depression phase to first accumulate buffer stocks in warehouses. With this commodity accumulation, the reserves can then be utilized to sustain the fixed price exchange of money and commodity units in the boom period.

An additional advantage, Hayek (1943, p. 182) continues, is that the proposal requires no “need for the monetary authorities or the Government in any way directly to handle the many commodities of which the commodity unit is composed. Both the bringing together of the required assortment of warrants and the actual storing of the commodities could be safely left to private initiative.” The monetary authority's daily operations would be automatic and impersonal similar to the gold standard, only defending the fixed price exchange of money and commodity units by buying or selling reserves.

Hayek ends his commodity currency reserve proposal by discussing some minor detailed technical features of the system implementation, such as substituting current contracts of specific commodities for future contracts. In addition, he emphasizes the many ways in which gold can be linked to the new commodity reserve currency if desired without any disadvantageous feature to the general framework.

#### WHITHER INTERNATIONAL MONETARY ORDER? KEYNES' REPLY ON “THE OBJECTIVES OF INTERNATIONAL PRICE STABILITY” (1943B)

Keynes replied to the commodity reserve currency plan proposed by Hayek in a short note, “The Objectives of International Price Stability” (1943b), in the same issue of the *Economic Journal*. For Keynes, there are two main complaints against the orthodox gold standard system as an instrument for international price stability. First, the gold standard does not provide the appropriate quantity of money in the different contexts of changing money demand. Gold as a commodity is inelastic to respond to fast and abrupt changes in money demand. Keynes classifies this criticism as the “familiar, old-fashioned criticism” of quantity theory proponents.

Many authors tried to meet this problem with different monetary schemes. Some examples are Marshall's tabular standard symetallism, Irving Fisher's compensated dollar, and now the commodity reserve currency proposal defended by Benjamin Graham, Frank Graham, and Hayek. Keynes (1943b, p. 185) then describes how his International Clearing Union would handle the problem of price elasticity

of supply. The great merit of his proposal, Keynes argued, is that the Clearing Union as a design policy instrument acts in international money chronic shortages by operating through the velocity of circulation (V) rather than through the volume or quantity of money (M). Money is only necessarily required to satisfy “hoarding, to provide reserves against contingencies, and to cover inevitable time-lags between buying and spending.”

As Keynes’ (p. 185) idea was to punish money hoarding, and reserves against contingencies in ICU are provided by facultative injections, a very small credit quantity would be sufficient in clearing national monetary authorities. The Clearing Union would abolish the problem of defining the correct quantity of money at each time and place “by making any significant quantity unnecessary.” From a national price level perspective, Keynes goes on, each national price level is “determined by the relation of the national wage-level to the national efficiency,” i.e., by the relation between money costs to the national currency unit. If the price level is determined by money costs relative to efficiency, an appropriate quantity of money in a given context “is a necessary condition of stable prices,” but “it is not a sufficient condition.”

In Keynes’ view, stabilizing the national price level is stabilizing the relation of money costs (especially money wages) in relation to national efficiency. From this, it follows the second (modern) criticism of the gold standard. The gold standard, Keynes (ibid.) writes, “attempts to confine the natural tendency of wages to rise beyond the limits set by the volume of money, but can only do so by the weapon of deliberately creating unemployment.” In other words, the gold standard can only stabilize the price level with the social cost of unemployment. Since money wages are downward rigid, any automatic mechanism of deflation by the gold standard is flawed in money wages (or money costs in general). Thus, the disequilibrium in the labor markets is corrected via adjustments in quantity, i.e., via unemployment.

In addition, Keynes argues, “this complaint may be just as valid against a new standard which aims at providing the quantity of money appropriate to stable prices, as it is against the old gold standard.” The commodity reserve currency plan does not have any effective measure through money quantity manipulation to necessarily secure price level stability with compatible full employment. However, Keynes did not detail his reasons to be against the advantages of a multi-product raw commodities basket in stabilizing the price level and income.

According to Keynes, the international monetary arrangement has only a strictly limited objective. This objective is not to pursue *international* stable prices but to serve as an accounting unit. If the pursuit of international stable prices was the objective, the price level that is stable in terms of an international monetary unit can only be translated and forced into national price levels through deflating domestic money costs. This is the gold standard mechanism. In Keynes’ idea, the international unit of account as Unitas or Bancors is only a unit for international transactions clearing. Paradoxically, the pursuit of international stable prices in the international monetary unit is not reflected in the corresponding stability of the various national entities and their domestic price levels because they have to be

disciplined by the deflationary money costs mechanism. Thus, Keynes concludes that pursuing international price stability leads to domestic price *instability*.

Keynes (1943b, p. 186) sustains that the primary policy objective within the international currency scheme should be “that countries may be allowed by the scheme, which is not the case with the gold standard, to pursue, if they choose, different wage policies and, therefore, different price policies.” Keynes’ idea allows each national entity some discretionary power to implement and pursue different targets on wages and prices, i.e., different combinations between price levels and unemployment.

It opens the door for different economic policies according to the particular necessities of each country member. Keynes’ position aligns with his caution and rejection of the very tight international constraints that are imposed in some dictating degree form into nations. Of course, this was at the center of his criticism of the Treaty of Versailles after the First World War in his famous and influential denunciation of *The Economic Consequences of Peace* ([1919] 1973).

Therefore, “[t]he fundamental reason for thus limiting the objectives of an international currency scheme is the impossibility, or at any rate the undesirability, of imposing stable price-levels from with-out. The error of the gold-standard lay in submitting national wage-policies to outside dictation” (Keynes, 1943a, p. 187). The most difficult task in the International Clearing Union scheme is to deal with country members getting too much out of track in their respective domestic wage and credit policies, that is, countries with more than reasonable expansionary (or restrictive) monetary and fiscal policies.

In this case, the inflationary (or deflationary) pressures in the country would destabilize the international clearing system based on a fixed exchange rate between the national monetary unit and the international Bancor account unit. To meet this problem, Keynes considered, first, asking countries seriously out of step to reconsider their policies. Second, to alter the exchange rates “to reconcile a particular national policy to the average pace. If the initial exchange rates are fixed correctly, this is likely to be the only important disequilibrium for which a change in exchange rates is the appropriate remedy” (p. 186).

Hence, Keynes’ main message is that “[i]t is wiser to regard stability (or otherwise) of internal prices as a matter of internal policy and politics.” For Keynes (p. 187), Hayek’s proposal fails on this important point. “Commodity standards which try to impose this [price stability] from without will break down just as surely as the rigid gold-standard.”

#### FRANK D. GRAHAM STEPS INTO THE CONTROVERSY: “KEYNES VS. HAYEK ON A COMMODITY RESERVE CURRENCY” (1944)

The controversy between Hayek and Keynes seemed to be a closed chapter since Hayek did not reply to the note by Keynes reacting to his essay in 1943. More than one year later, however, in the December 1944 issue of the *Economic Journal*,

Frank Graham enters into the controversy in a review article on “Keynes vs. Hayek on a Commodity Reserve Currency” (1944).

According to Frank Graham (1944, p. 424), we must first note that the main point that Keynes raised against Hayek, i.e., that the system imposes from outside a domestic price level that only can be realized with unemployment, is only true if the scheme has an immutably fixed exchange rate. Graham agrees with Keynes about the difficulty of securing wage earners’ demands and national stable prices in a scenario where domestic prices appear to be decided by an international convention rather than national economic policy discretion. However, Graham disagrees with Keynes’ opinion that the error of the gold standard is to submit national wage policies to exogenous dictation. This position throws away the faults of the gold standard with its virtues.

For Graham (*ibid.*), the gold standard system “did not submit wage-policies to *dictation*, by governing authority anywhere, but made them the result of impersonal forces issuing out the disposition, and potentiality, of individuals to follow what they conceived to be their interest.” Like Benjamin Graham and Hayek, Frank Graham praises the automatic character of the gold standard. It is an advantage *per se* because it settles the basis for predictable system behavior. One of the main prerequisites of a social coordination process is the capacity for predicting mutual behavior by the decision-making agents. The virtues of the old pre-Great War gold standard are evidenced by a spontaneous process of adhesion to it and by the form of its fall. It was only after the adoption of gold subjected to varying national policies and management that the standard was abandoned.

If Keynes’ argument of an imposing dictation price level, Graham (1944, p. 424) continues, is only valid in an immutably fixed exchange rate case, by his turn, Hayek did not explicitly state whether in his commodity reserve currency version there would be immutably fixed exchange rates. If this is not the case, there could be no problem for an international clearing organization to offer freely to exchange in both ways for buyers and sellers of the international commodity unit “against warehouse receipts covering a designated composite of raw material.” Graham mentions the similar role of promoting the stability of exchange rates and financial flows performed by the “new [International Monetary] ‘Fund’ or the Bank for International Settlements” created at the Bretton Woods conference in July 1944. Therefore, in this scheme, no particular monetary policy could be imposed on any individual country. Each country would choose the value of its own currency fixed against the international commodity currency and other national currencies.

A country can choose, for instance, its own value currency compatible with expansionary monetary and fiscal policies (i.e., a rising price level) by devaluing its currency against the international commodity standard and the rest of the world. In this case, Graham (p. 425) concludes that “Lord Keynes’ arguments that an international commodity reserve currency would *impose*, from without, a price-level policy on any country, or would break down, is quite untenable.”

There is no fundamental divergence and logical impossibility in the combination of this sort of international commodity reserve currency and Keynes’ pro-



posal. An international currency along the lines of Keynes' Bancor could be the proper commodity currency with the operational support of an International Clearing Union (or another international fund) institution. Nevertheless, Graham is critical of Keynes' original proposal to have only a mere unit of account function (denominated in Bancors) in a pure debt international monetary system.

If no tie with anything real with limits to its growth is made to anchor the monetary supply, the wage earners' pressures to gain an ever-increasing real wage not based on labor productivity can only result in an inflationary path. Keynes assumed that labor pressure is one of the major failures of any commodity currency and was the loose joint of the gold standard. In particular, this pressure expressed in downward wage-money rigidity makes the coordination failure adjustment in quantities and not in price in the labor and product markets. In Graham's (1944, p. 426) opinion,

“any monetary policy which does not confine such a tendency as (money) wages may have to rise beyond the limits within which it is possible to preserve a stable price level, provides a very vicious ‘standard.’ If Lord Keynes takes the contrary view, he seems to me, in effect, to be plumping for a progressive inflation, wholly indefinite as to time and amount.”

Another problem is that if money cannot be at some level neutral in distributive terms, whoever is in control of the monetary authority will have totalitarian powers over fellow citizens. For Graham, discretionary decisions in monetary affairs have serious upper limits. The real problem in unemployment is not that it is the result of the denied opportunity to work at a given fancy wage that the wage earner desires, but that due to abnormal conditions of liquidity preference workers are denied the opportunity to work at wages that they could accept under normal liquidity conditions. The merit of the commodity reserve currency is that the system operates to keep liquidity preference in normal conditions, as Hayek stressed in his essay.

The commodity reserve currency can fulfill the demand for more liquidity on an individual and aggregative societal level. This is a function that the gold standard cannot perform, as Hayek argued, because the standard is based on a single commodity with an inelastic supply. In the new proposal, speculative demand for money that arises in depressing and uncertain times is counterbalanced. Graham (p. 427) agrees with Keynes that a necessary condition for stabilizing prices is stabilizing the relation of money wages (money costs in general) to efficiency.

Indeed, this is precisely what the scheme intends. Graham (1944, p. 428) concludes his intervention by reaffirming that so far exchange rates were free to change in correspondence to the national money costs against the international commodity currency, the currency reserve proposal is fully compatible with Keynes' International Clearing Union. Moreover, Keynes' criticism that the arrangement implies an imposed without stable prices is not true. In Graham's words,

“If one insists upon an unstabilised price level at home, there is nothing in a stabilised international unit to prevent it, or nothing to prevent other countries having stable price levels if they so desire. No country, therefore, would be any more inhibited in the presence of an international monetary unit of stable value than in the presence of an international unit without anchor, and a stable-value international unit would not interfere in any way with anything that Lord Keynes has proposed in his Clearing Union.”

Finally, Graham (p. 428) raises a question that emerged in personal correspondence with Keynes on the subject. “It is the intransigence of the attitude taken here, and by Professor Hayek, which is, I think, troubling Lord Keynes.” Graham states that Keynes is very reluctant in accepting unemployment and social costs in the name of some international standard purity, such as the gold standard. “How much otherwise avoidable unemployment, he [Keynes] asks [to Hayek], would you be willing to bring about for this purpose?”

#### KEYNES’ NOTE IN RESPONSE TO FRANK GRAHAM

Keynes (1944, p. 429) replied to Frank Graham in a short two-page note, after Graham’s article. Keynes observes that “Prof. Graham’s statement of my point is a very fair one.” He regrets that, in the note in which he responded to Hayek, he expressed himself much more briefly than what would be necessary by the complex nature of the subject.

Keynes concedes the point that a commodity reserve currency is intrinsically more elastic than the single commodity gold standard. Indeed, Keynes admits that “[m]y own sympathies have always fallen that way. I hope the world will come to some version of it some time. But the opinion I was expressing was on the level of contemporary practical policy; and on that level I do not feel that this is the next urgent thing or that other measures should be risked or postponed for the sake of it.”

Therefore, Keynes agrees with the commodity currency reserve arrangement as a better suitable theoretical proposal. He endorsed it and praised for one day some version of it to be applied. Keynes’ fear is on the pragmatic ground and the feasible arrangement compatible with the then-contemporary practical policy. In particular, when considering the public need for reconstruction and economic growth after the Second World War. One could argue, in this sense, that his international monetary scheme proposed in Bretton Woods was a policy and feeling for the times. In the same way that *The General Theory* had been in the context of a decade of unemployment and monetary instability in Britain in the 1920s and the Great Depression in the 1930s.

In conclusion, Keynes (p. 429) justifies his position for four reasons. First, the immediate task is “to discover some orderly, yet elastic method of linking national currencies to an international currency, whatever the type of international cur-

rency may be. So long as national currencies change their values out of step with one another, I doubt if this task is made easier by substituting a tabular standard for gold. Indeed the task of getting an *elastic* procedure may be made more difficult, since a tabular standard might make rigidity seem more plausible. Perhaps unjustly, I was suspecting Prof. Hayek of seeking a new way to satisfy a propensity towards a rigid system.”

The second is on the political wisdom of an international monetary system that puts some pressure on national price levels. Keynes is skeptical of this external pressure on national wage levels because of the numerous political possible negative ramifications of such schemes. This, of course, is not to deny that he condemns any national policy destined to make “money wages forever soaring upward to a level to which real wages cannot follow.”

For Keynes (1944, p. 430), “it is one of the chief tasks ahead of our statesmanship to find a way to prevent” this indiscriminate persistent inflationary pressure. But the proper realm of this task is within the national level. The third reason is a purely practical, pragmatic, and political one. “Why waste one’s breath on what the Governments of the United States, Russia, Western Europe and the British Commonwealth are bound to reject?”

The fourth and last point is concerned with the timing of the proposal. In his view, the right way to adopt the tabular standard is to develop a technique for such and gradually “accustom men’s minds to the idea through international buffer stocks.” When the technique is politically matured, with opposition and prejudices to the commodity currency reserve model overcome, only then “it will be time enough to think again.”

Concerning the buffer stocks, Keynes says that he can “enthusiastically join forces with Professor Frank Graham and Mr. Benjamin Graham.” Although he has reticences about the implementation timing of the currency scheme in his days, i.e., December 1944, when many materials and raw commodities were scarce. In conclusion, Keynes (1944, p. 430) reiterates the practical discussion. “All this, I agree, is very low-level talk; for which I apologise. But it was in fact from a low level that I was, in the first instance, addressing Professor Hayek on his dolomite.”

## TOWARD RECONCILIATION: FIGHTING WARS IN CAMBRIDGE

On September 7, 1940, Nazi Germany started its bombing campaign against the United Kingdom. From this day on, for 56 of the next 57 following days and nights, the German *Luftwaffe* air fleets systematically bombarded London. With the *Blitz* targeting London, the London School of Economics (LSE) evacuated to the University of Cambridge, with the plan of semi-merging the two faculties. The LSE evacuation started in September 1939, when the war exploded. While he did not move to Cambridge, in the early autumn of 1940, Hayek traveled weekly to Cambridge. Feeling hesitant about the difficulty and expense of moving an entire

household, Hayek was one of the last to move to Cambridge and therefore found it very difficult to find accommodation at the university.

In this process, Keynes helped Hayek to find rooms in his own King's College, Cambridge. As Hayek (1994, p. 97) recalls, "I could at first not get suitable accommodation at Cambridge, the Robbins, who had then a cottage in the Chilterns, took my family for a year, while Keynes, with whom by that time I had become very friendly, got me rooms at King's College." In October 1940, Keynes arranged with the Vice-Provost of the King's College and wrote to Hayek to manage the rooms. In August 1941, the King's Council elected Hayek to be a member of the High Table until the end of the LSE evacuation. In 1945, in addition, Keynes crucially supported Hayek in his election as a new fellow of the British Academy.

Hayek became a British subject in 1938, one year before the war broke out. However, as an Austrian-born, he did not participate in the economists' war efforts, which frustrated him a lot. His intellectual war battle was in writing his famous and controversial war book denouncing the intrinsic connection between economic planning and social totalitarian planning, *The Road to Serfdom* (1944). Hayek's (1994, p. 98) life in Cambridge was very pleasant. "Life at Cambridge during those war years was to me particularly congenial [...] of all forms of life, that at one of the colleges of the old universities – at least as it then was at Cambridge; Oxford I never knew well – still seems to me the most attractive. The evenings at the High Table and the Combinations Room at King's are among the pleasantest recollections of my life."

Since Hayek spent the war years in Cambridge, he and Keynes could share much time during the weekends or whenever Keynes stayed in Cambridge for his university duties. The time and space sharing permitted the development of a close personal and intellectual relationship between both men. Their relationship improved dramatically in the 1940s. As Hayek (1994, p. 91) recalls,

"We had become very friendly, because we shared so many other interests, historical and outside economics. On the whole, when we met, we stopped talking economics. I used to meet him fairly frequently during the war, although he was of course working in London, but during the weekends he came back to Cambridge, and I was of course at King's College. So we became personally very great friends, including [his wife] Lydia Lopokova."

In fact, Keynes was already a hero to Hayek and his Austrian generation way before Keynes had established his reputation as an economic theorist. Keynes' denunciation of the peace conditions imposed on the defeated Central Powers (led by Germany, Austro-Hungary, and the Ottoman empire), particularly on Germany, in *The Economic Consequences of the Peace* (1919) was a vivid and lucid evaluation of the fault lines in the Treaty of Versailles. Hayek ([1966] 1978, p. 283) as a young Austrian-Hungarian veteran officer who fought on the Italian front, his country a member of the Triple Alliance defeated in the First World War, could not praise

Keynes more. “Was he not the man,” the Austrian economist claims, “who had had the courage to protest against the economic clauses of the peace treaties of 1919? We admired the brilliantly written books for their outspokenness and independence of thought, even though some older and more acute thinkers at once pointed out certain theoretical flaws in his argument.”

This reconciliation did not only occur in a personal sphere. In the 1940s, Hayek and Keynes were allies in the fight against inflation as a mechanism to finance the war effort. During the war, as Hayek (1994, p. 91) remembers, “I was fighting on Keynes’ side against his critics, because Keynes was very much afraid of inflation. I actually had published one or two essays, one reviewing his wartime pamphlet [“Review of *How to Pay for the War*, by J. M. Keynes,” 1940] and another one on the problem of combating inflation [“Mr. Keynes and War Costs,” 1939e], which he had already approved. During the war years, the great danger had become inflation, no longer deflation; so we were up against inflation.”

In his “Mr. Keynes and the War Costs” (1939e, p. 740), an article that appeared in the “Middles” on 24 November 1939 in *The Spectator*, Hayek supported Keynes’ plan to afford the war effort drafted in two previous articles entitled “Paying for the War” in *The Times* on November 14 and 15. Divergences of the past turned into convergences to the war policies’ necessities. “As Mr. J. M. Keynes in the past has often expressed views which were peculiarly his own, it may be said at once that the main features of his present proposal [...] will probably be accepted by most economists – certainly by some which in other respects have been regarded as his scientific antipodes.”

With his fear of post-war inflation, completely opposed to Keynes’ fear of a post-war slump, Hayek added his suggestion of a capital levy to Keynes’ plan – which Keynes incorporated in his enlarged and revised pamphlet version published on 27 February 1940. Hayek (1939e, p. 741) argued for “a post-war capital levy on old wealth, payable partly in shares of the industrial capital of the country, to create a trust fund, a kind of giant holding company, which would give the holders of the war savings, instead of a claim against the government, an equity in the industrial capital of the country.”

As Keynes (1940, p. 88) acknowledged in *How to Pay for the War*, “[t]he proposal to meet deferred payout of a post-war capital levy was first made by Prof. von Hayek in an article published in the *Spectator* on November 24, 1939.” Keynes wanted to use the capital levy to finance the cash repayment after the war, while Hayek favored using the capital levy as equity titles in the productive capital. Nevertheless, writing to Keynes on 3 March 1940, on receiving Keynes’ revised scheme version, Hayek was eager to emphasize that “I have now read it carefully and still find myself in practically complete agreement in so far as policy during the war is concerned. It is reassuring to know that we agree so completely on the economics of scarcity, even if we differ when it applies” (Keynes, 1978, p. 106).

Keynes’ convergence with Hayek in the matter of anti-inflation is profound. In his endorsing review of Keynes’ 1940 pamphlet, Hayek (1940, pp. 321-2) himself stressed this fact. “After Mr. Keynes had acknowledged that ‘in war we move back

from the Age of Plenty to the Age of Scarcity' and that 'the Age of Scarcity has arrived before the whole available labour has been employed,' the difference which had so long separated him from the more 'orthodox' economists had disappeared and any contribution to the burning problem coming from him was certain of the closest attention."

More surprisingly, Hayek pressed to issue a public letter bringing different well-known economists of all traditions and schools to support Keynes' plan for the war. He wanted to make it clear that economists were unanimous on the policy for the war. Unfortunately, with the majority of the British economists in government service, the project never materialized (see also Moggridge, 1992, p. 631ff). Nevertheless, Hayek (1940, p. 322) wrote a public statement himself on this professional practical unanimity in his review of *How to Pay for the War* for the *Economic Journal*:

"[t]he unanimity with which his proposal was approved by economists and the fact that neither serious criticism of the basic idea nor a real alternative was offered are a remarkable tribute paid to the author by his colleagues. It is unfortunate that in the existing conditions this practical unanimity of the experts could not find adequate expression. With so large a proportion of the economists of the country in Government service, and thus prevented from publicly expressing opinions on questions of policy, it may not be out of place for the reviewer here to record his personal impression that, so far as the main outline of Mr. Keynes' proposal is concerned, this unanimity was almost complete."

Indeed, this is great convergence between both men. As well as his anti-deflationism, Keynes' anti-inflationism is a common constant in his writings, evidenced from *The Economic Consequences of the Peace* (1919) to *A Tract on Monetary Reform* ([1923] 1978) to his proposal for *How to Pay for the War* (1940). In his 1919 book, his critical notes on inflation eroding the pillars of Western civilization and the market institutions are beautifully written and illustrated.<sup>5</sup> In the *Tract*, Keynes used the quantity theory of money and purchasing power parity to defend not some fixed exchange rate parity but to stabilize final consumers' price index levels as the main goal of monetary policy. This contrasted with the misleading return to the gold standard at an overvalued exchange rate (i.e., at its 1914 parity of £1=\$4.86) in April 1925 by Winston Churchill.

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<sup>5</sup> Keynes ([1919] 1971, p. 149) was a determined fighter against inflation. "As the inflation proceeds and the real value of the currency fluctuates wildly from month to month, all permanent relations between debtors and creditors, which form the ultimate foundation of capitalism, become so utterly disordered as to be almost meaningless, and the process of wealth-getting degenerates into a gamble and a lottery. Lenin was certainly right. There is no subtler, no surer means of over-turning the existing basis of society than to debauch the currency. The process engages all the hidden forces of economic law on the side of destruction, and does it in a manner which not one man in a million is able to diagnose."

Later in his career, Hayek will also eventually adopt the position of pursuing a stable consumer index price level, abandoning his early productivity rule for the price level (i.e., that the price level should vary inversely to productivity and efficiency gains in a growing economy). Nevertheless, there are some more subtle differences between the pair in the reasons to fight against inflation. In Keynes' view, inflation is mainly bad because it benefits the contractual debtor and prejudices the contractual creditor. "The individualist capitalism of today," Keynes (1973, p. 36) notes, "presumes a stable measuring-rod of value, and cannot be efficient – perhaps even cannot survive – without one." Inflation erodes the mechanisms that define a modern market economy, the banking and credit system that made possible a monetary economy of production.

Perhaps more important, inflationary processes disrupt the moral foundations which sustain the market economy. Inflation (or deflation) breaks the moral sense of justice of pecuniary income returns. The contractual arrangement is the ultimate ethical foundation of capitalism. A market system can only be morally justified when its institutions deliver more efficiency and growth in a morally embedded rationale accepted by the people. In Hayek's opinion, although he certainly agreed with these justifications, the main reason why inflation is dangerous is that it distorts the most important guide-transmitter system of knowledge, indispensable to consumption, production, and investment schemes of an advanced industrial society, the price system.

In the 1920s and 1930s, liberal democracy was questioned on political, economic, and philosophical bases. Keynes fought to manage the flaws of capitalism because he wanted to counterattack its negative political, moral, and economic outcomes, which led to profound illiberal reactions in the 1930s. As the moral philosopher, forged in his early membership of the Apostles and the Bloomsbury circle, Keynes struggled with the moral foundations of the market economy. Indeed, Hayek and Keynes shared a deep conviction in the fundamental liberal values and principles that characterize the modern great, open, and extended society. However, they have different policy conclusions derived from these shared common liberal moral *values*.

Both men had different views on the social philosophy of a liberal world. The most intriguing and famous illustration of this point is Keynes' letter to Hayek on his impressions of *The Road to Serfdom* (1944). Keynes was crossing the Atlantic Ocean on the way to the Bretton Woods conference during the first three weeks of July 1944. On 28 June 1944, Keynes (1980, pp. 385-8) finished reading the book and wrote to Hayek:

"In my opinion it is a grand book. We all have the greatest reason to be grateful to you for saying so well what needs so much to be said. You will not expect me to accept quite all the economic dicta in it. But morally and philosophically I find myself in agreement with virtually the whole of it, and not only in agreement with it, but in a deeply moved agreement. [...] I should say that what we want is not no planning, or



even less planning, indeed I should say that we almost certainly want more. But the planning should take place in a community in which as many people as possible, both leaders and followers, wholly share your own moral position. Moderate planning will be safe if those carrying it out are rightly oriented in their minds and hearts to the moral issue. This is in fact already true of some of them. But the curse is that there is also an important section who could almost be said to want planning not in order to enjoy its fruits but because morally they hold ideas exactly the opposite of yours, and wish to serve not God but the devil. [...] What we need is the restoration of right moral thinking – a return to proper moral values in our social philosophy. If only you could turn your crusade in that direction you would not feel quite so much like Don Quixote. Dangerous acts can be done safely in a community which thinks and feels rightly, which would be the way to hell if they were executed by those who think and feel wrongly.”

Although Hayek and Keynes agreed on the general principle of liberal values, each one draws the line between legitimate public direct interventions in different places. The differences in philosophical and economic foundations of their respective social theories constitute the disagreement. They agreed on the end values of a cosmopolitan liberal market society, but the means to these values are distinct. In particular, the significant difference between both men seems to be greatly founded in different conceptions of uncertainty and its relationship with morals, institutions, and rational action (e.g., see Carabelli and De Vecchi, 1999).

In his mature life, Hayek took seriously Keynes’ challenge to build a coherent liberal political theory that addressed the demarcation question between legitimate and illegitimate public intervention. In the 1960s, this was the theme of the positive reaffirmation of the classical liberal values and principles in *The Constitution of Liberty* (1960). The restating of the rule of law as the main institutional principle of a liberal society was the demarcation line between legitimate and illegitimate state domains. In the 1970s, Hayek provided a kind of update of the liberal tradition to the second half of the twentieth century with the predominance of the welfare state in his trilogy on *Law, Legislation, and Liberty* (1973-9).

## EPILOGUE

In the 1940s, the commodity reserve currency was greatly debated. In the early 1950s, the theme also drew attention to an especially critical account by Milton Friedman (1951). However, with the 1944 Bretton Woods agreement, dominated by the dispute between Keynes and Harry Dexter White, the proposal did not gain very much appeal in the profession or among government officials. White imposed the dollar as the international currency, promising to be convertible in gold at the \$35/ounce fixed parity. Twenty years later, in 1964, the commodity cur-

rency reserve idea was resurrected with strength by Albert G. Hart, Nicholas Kaldor, and Jan Tinbergen, in “The Case for an International Commodity Reserve Currency” (1964), a submission to the United Nations Conference on Trade and Development (UNCTAD). As Hart (1991, p. 561) sustains, Kaldor was “the most prominent and persuasive supporter of the proposal for an international Commodity Reserve Currency system” in its second-generation form.

In his Bancor campaign in the 1960s, Kaldor carried the flag of B. Graham’s (and Keynes’) ideas on the role of buffer stocks to stabilize commodity prices and the economy as a whole backing the international monetary system. In their UNCTAD report, Kaldor (1964, p. 142) argued that “[t]he world may ultimately find that the best solution to the problem not along the lines of a further extension of the key-currency system, nor in the creation of a world paper currency backed by the obligation of member countries, nor in the revaluation of gold, but in the monetisation of real assets other than gold.” In the inflationary early 1980s, Robert Hall (1982) also endorsed it arguing that the commodity standard moved closely with the living costs in the United States and, therefore, would be better than gold to stabilize the dollar purchasing power.

The Hayek and Keynes controversy on the commodity reserve currency was a controversy on the adequate policy for the times, namely, the best international arrangement to be implemented after the ending of the Second World War. At some point, Hayek and Keynes end up with the same view of how the price level should behave but still disagreed on how to operate the best means for this end, that is, on what should be the best institutional monetary architecture to achieve the end of stable prices (cf. Selgin, 1999). In the 1970s, Hayek advocated a zero-inflation monetary norm in his *Denationalisation of Money* (1978), arguing for a radical idea of the denationalization of money and competitively issued private fiat currencies.

## REFERENCES

- Birner, J. (1997) Between Consensus and Dissent: The Intellectual Styles of Keynes and Hayek. Torino: ICER Working Papers, 14.
- Butos, W. (2003). Knowledge Questions: Hayek, Keynes and Beyond. *Review of Austrian Economics*, 16(4): 291–307.
- Butos, W. and Koppl, R. (1997). The Varieties of Subjectivism: Keynes and Hayek on Expectations. *History of Political Economy*, 29(2): 327–59.
- Butos, W. and Koppl, R. (2004). Carabelli and De Vecchi on Keynes and Hayek. *Review of Political Economy*, 15(2): 239–47.
- Caldwell, B. (1998). Why Didn’t Hayek Review Keynes’ *General Theory*? *History of Political Economy*, 30 (4): 545–69.
- Caldwell, B. (2011). Keynes and Hayek: Some Commonalities and Differences. *Journal of Private Enterprise*, 27(1): 1–7.
- Carabelli, A. and De Vecchi, N. (1999). ‘Where to Draw the Line?’ Hayek and Keynes on Knowledge, Ethics and Economics. *European Journal of the History of Economic Thought*, 6(2): 271–96.
- Carabelli, A. and De Vecchi, N. (2001). Hayek and Keynes: from a Common Critique of Economic Method to Different Theories of Expectations. *Review of Political Economy*, 13(3): 269–85.

- De Vecchi, N. (2006). Hayek and the General Theory. *European Journal of the History of Economic Thought*, 13(2): 233-58.
- Eichengreen, B. (1992). *Golden Fetters: The Gold Standard and the Great Depression*. Oxford: Oxford University Press.
- Eichengreen, B. (2011). *Exorbitant Privilege: The Rise and Fall of the Dollar and the Future of the International Monetary System*. New York: Oxford University Press.
- Friedman, M. (1951). Commodity-Reserve Currency. *Journal of Political Economy*, 59(3): 203-32.
- Graham, B. (1937). *Storage and Stability: A Modern Ever Normal Granary*. New York and London: McGraw-Hill.
- Graham, B. (1933). Stabilized Reflation. *Economic Forum*, 1(2): 186-193.
- Graham, B. (1944a). *World Commodities and World Currency*. New York: McGraw-Hill.
- Graham, B. ([1944b] 1999). Proposals for an International Commodity-Reserve Currency." In Janet Lowe, ed., *The Rediscovered Benjamin Graham*. New York: John Wiley, pp. 233-238.
- Graham, B. (1996). *The Memoirs of the Dean of Wall Street*. New York: McGraw-Hill.
- Graham, F. D. (1940). Achilles' Heels in Monetary Standards. *American Economic Review*, 30(1): 16-32.
- Graham, F. D. (1941). Transition to a Commodity Reserve Currency. *American Economic Review*, 31(3): 520-5.
- Graham, F. D. (1942). *Social Goals and Economic Institutions*. Princeton: Princeton University Press.
- Graham, F. D. (1944). Keynes vs. Hayek on a Commodity Reserve Currency. *Economic Journal*, 54(215-6): 422-9.
- Hall, R. E. (1982). Explorations in the Gold Standard and Related Policies for Stabilizing the Dollar. In: Hall, R. E. (Ed.) *Inflation: Causes and Effects*. Chicago: University of Chicago Press, pp. 111-122.
- Hart, A. G. (1991). Nicholas Kaldor as Advocate of Commodity Reserve Currency. In: Nell, E. J. and Semmler, W. eds., *Nicholas Kaldor and Mainstream Economics*. London: Macmillan, pp. 561-570
- Hart, A. G., Kaldor, N. and Tinbergen, J. (1964). *The Case for an International Commodity Reserve Currency*. A memorandum submitted to the United Nations Conference on Trade and Development. Geneva: United Nations.
- Hayek, F. A. (1929a). Gibt es einen "Widersinn des Sparens"? *Zeitschrift fur Nationalökonomie*, 1: 387-429.
- Hayek, F. A. ([1929b] 1931). "The "Paradox" of Savings." *Economica*, 32 (1), pp. 125-69.
- Hayek, F. A. (1931a). *Prices and Production*. London: Routledge.
- Hayek, F. A. (1931b). Reflections on the Pure Theory of Money of Mr. J. M. Keynes, *Economica*, 11(33): 270-95.
- Hayek, F. A. (1931c). A Rejoinder to Mr. Keynes. *Economica*, 11(34): 398-403.
- Hayek, F. A. (1932). Reflections on the Pure Theory of Money of Mr. J. M. Keynes (continued), *Economica*, 12(35): 22-44.
- Hayek, F. A. (1939a). *Profits, Interest and Investment and Other Essays on the Theory of Industrial Fluctuations*. London: Routledge & Kegan Paul.
- Hayek, F. A. (1939b). *Monetary Nationalism and International Stability*. London: Longmans, Green, and Co.
- Hayek, F. A. (1939c). Pricing versus Rationing. *The Banker*, September 1939, pp. 242-9.
- Hayek, F. A. (1939d). The Economy of Capital. *The Banker*, October 1939, pp. 38-42.
- Hayek, F. A. (1939e). Mr. Keynes and War Costs. *The Spectator*, November 24, 1939, pp. 740-1.
- Hayek, F. A. (1940). Review of *How to Pay for the War*, by J. M. Keynes. *Economic Journal*, 50(198-9): 321-6.
- Hayek, F. A. (1941). *The Pure Theory of Capital*. London and Henley: Routledge and Kegan Paul.
- Hayek, F.A. (1943). A Commodity Reserve Currency. *Economic Journal*, 53(210-1): 176-84.

- Hayek, F. A. ([1944] 2007). *The Road of Serfdom: Text and Documents*. Vol. II of The Collected Works of F. A. Hayek. ed. Bruce Caldwell. Chicago and London: University of Chicago Press.
- Hayek, F. A. (1960). *The Constitution of Liberty*. Chicago: University of Chicago Press.
- Hayek, F. A. ([1966] 1978). Personal Recollections of Keynes and the 'Keynesian Revolution.' In: Hayek, F. A. (1978). *New Studies in Philosophy, Politics, Economics, and the History of Ideas*. Chicago: University of Chicago Press, pp. 283-89.
- Hayek, F. A. (1972). *A Tiger by the Tail: The Keynesian Legacy of Inflation*. London: Institute of Economic Affairs.
- Hayek, F. A. (1973-9). *Law, Legislation, and Liberty: Volume I: Rules and Order. Volume II: The Mirage of Social Justice. Volume III: The Political Order of a Free People*. Chicago: University of Chicago Press.
- Hayek, F. A. (1978). Denationalisation of Money: The Argument Refined. London: Institute of Economic Affairs.
- Hayek, F. A. (1994). *Hayek on Hayek: An Autobiographical Dialogue*. S. Kresge & L. Wenar (Eds.). Indianapolis: Liberty Fund Press.
- Hayek, F. A. (1995). *Contra Keynes and Cambridge: Essays, Correspondence*. Vol. IX of The Collected Works of F. A. Hayek, ed. Bruce Caldwell. Chicago: University of Chicago Press.
- Ingrao, B. (2005). When the Abyss Yawns and After: the Correspondence Between Keynes and Hayek. In: Marcuzzo, M. C. and Rosselli, A. (Eds), *Economists in Cambridge: a Study of Their Correspondence 1907–1946*. London: Routledge.
- Kaldor, N. (1964). The Case for an International Commodity Reserve Currency, in collaboration with A. G. Hart and J. Tinbergen. In *Essays on Economic Policy*. Volume II. London: Duckworth, pp. 131–177.
- Keynes, J. M. ([1919] 1971). *The Economic Consequences of the Peace*. Vol. 2 of The Collected Writings of John Maynard Keynes, edited by D.E. Moggridge. London: Macmillan.
- Keynes, J. M. ([1923] 1978). *A Tract on Monetary Reform*. Vol. 4 of The Collected Writings of John Maynard Keynes, edited by D.E. Moggridge. London: Macmillan.
- Keynes, J. M. ([1930] 1971). *A Treatise on Money*. Vols. 5 and 6 of The Collected Writings of John Maynard Keynes, edited by D.E. Moggridge. London: Macmillan.
- Keynes, J. M. (1931a). The End of the Gold Standard. *The Sunday Express*, 27 Sept. 1931.
- Keynes, J. M. (1931b). The Pure Theory of Money. A Reply to Dr. Hayek. *Economica*, 11(34): 387-97.
- Keynes, J. M. ([1936] 1973). *The General Theory of Employment, Interest, and Money*. Vol. 7 of The Collected Writings of John Maynard Keynes, edited by D.E. Moggridge. London: Macmillan.
- Keynes, J. M. (1938). The Policy of Government Storage of Food-Stuffs and Raw Materials. *Economic Journal*, 41(191): 449-60.
- Keynes, J. M. (1939). Paying for the War. *The Times*, November 14 and 15.
- Keynes, J. M. (1940). *How to Pay for the War: A Radical Plan for the Chancellor of the Exchequer*. London: Macmillan.
- Keynes, J. M. (1943a). *Proposals for an International Clearing Union*. London: HM Stationery Office Cmd 6437. White Paper.
- Keynes, J. M. (1943b). The Objective of International Price Stability. *Economic Journal*, 53(210-1): 185–7.
- Keynes, J. M. (1944). Note by Lord Keynes. *Economic Journal*, 54(215-6): 429–30.
- Keynes, J. M. (1978). *Activities 1939–1945: Internal War Finance*. Vol. 22 of The Collected Writings of John Maynard Keynes, edited by D.E. Moggridge. London: Macmillan.
- Marshall, A. (1887). Remedies of Fluctuations of General Prices. *Contemporary Review*, 21: 371–5.
- Menger, C. (1871). *Grundsätze der Volkswirtschaftslehre*. Vienna: Braumüller.
- Moggridge, D. E. (1992). *Maynard Keynes: An Economist's Biography*. London: Routledge.
- Schumacher, E. F. (1943). Multilateral Clearing. *Economica*, 10(38): 150-65.

- Selgin, G. (1999). Hayek versus Keynes on How the Price Level Ought to Behave. *History of Political Economy*, 31(4): 699-721.
- Skidelsky, R. (2006). Hayek versus Keynes: The Road to Reconciliation. In: Feser, E. (Ed.) *The Cambridge Companion to Hayek*. Cambridge: Cambridge University Press, pp. 82-110.
- Sousa, F. (2021). Keynes: The Object of Hayek's Passion? *Cambridge Journal of Economics*, 45(1): 1-18.
- Steele, G. R. (2001). *Keynes and Hayek: The Money Economy*. London: Routledge.
- Steil, B. (2013). *The Battle of Bretton Woods: John Maynard Keynes, Harry Dexter White, and the Making of a New World Order*. Princeton: Princeton University Press.
- Telles, K. (2022). The Road to The General Theory: J. M. Keynes, F. A. Hayek, and the Genealogy of Macroeconomics. *Brazilian Journal of Political Economy*, 42(1): 48-70.
- Woods, J. (2022). Benjamin Graham on Buffer Stocks. *Journal of the History of Economic Thought*, forthcoming.

