

WORKING PAPER SERIES

| K. Dimitrova, N. Nenovsky, G. Pavanelli |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| EXCHANGE CONTROL IN ITALY AND BULGARIA IN THE INTERWAR |
| |
| |
| PERIOD: HISTORY AND PERSPECTIVES |
| |
| Working Paper No. 40/2007 |

Exchange Control in Italy and Bulgaria in the Interwar Period: History and Perspectives*

Nikolay Nenovsky Bulgarian National Bank, University of Orléans, ICER

Giovanni Pavanelli

Department of Economics "G. Prato", University of Torino

Kalina Dimitrova

Bulgarian National Bank, Sveti Kliment Ohridski University of Sofia, ICER

Abstract:

This paper analyses exchange rate control measures adopted in Italy and Bulgaria during the interwar period. The first two sections provide a detailed account of the institutional and economic framework in which these measures were enforced and interpret them utilizing statistical data. In the third section it suggests a theoretical interpretation of exchange control and clearing agreements stressing that these policies were a serious interference in market mechanisms. A further point is that exchange control introduced and practiced in Italy and Bulgaria was an eloquent example of how serious the balance of payments constraint was at that time and how difficult it was to circumvent it. In the last section it derives some lessons for today's Italian and Bulgarian economies.

JEL Classification: F 31, F 33, B 22

Keywords: Exchange control, Clearing agreements, International monetary relations

^{*} A previous version of this paper was presented at the Second Conference of the South-eastern Europe Monetary History Network (SEEMHN) in Vienna in April 2007. We are grateful to Roumen Dobrinsky for providing us with League of Nations' reports and Rumen Avramov, Martin Ivanov, Luca Einaudi, Peter Bernholz, and Atanas Leonidoff for helpful comments and suggestions. The usual disclaimer applies.

Il mio sentimento d'amicizia per la Bulgaria è costante, sincero, disinteressato. Questo sentimento è condiviso della totalità del popolo italiano. Credo fermamente nell'avvenire politico, economico e morale della Bulgaria. Essa ha il suo compito nei Balcani.

Mussolini, B. in Scipcovensky, M., (1927, p.1)

1. Introduction

On the 6th September 1937, BNB governor Dobri Bozhilov sent confidential message N.166 to the Minister of Finance informing him that two Italians, Costantino and Camillo Vacaro, had violated the Foreign Exchange Act in 1933 and had done so with the knowledge and assistance of the Italian ambassador in Sofia. Camillo Vacaro had brought certain amounts of money in Bulgarian currency to the Embassy, for which the Ambassador had given him cheques denominated in foreign currencies; those cheques had then been sent to Italy by the legation itself. The Governor asked the Minister of Finance to raise this delicate affair at the Council of Ministers before the BNB Governor brought a prosecution under the Foreign Exchange Act (BNB, 2004, No 297). The background of this historical detail connecting Italy and Bulgaria 1 was formed by a lengthy period of restrictions on trade and foreign currency exchange between the Wars, in which Bulgaria and Italy were active protagonists (the two countries were allies in the Second World War and economically belonged to the so-called Clearing Bloc).

The history of interwar exchange controls in Europe provides us with interesting insights into the current development of the European Monetary Union and into the prospects for its enlargement, in which the exchange rate and monetary policy play central roles. As in the past, albeit in a different historical context and in different forms, Europe today could be divided into a centre, part-periphery and periphery: groups of countries at different stages of economic development. Therefore, we find it challenging to compare the evolution of exchange controls in two countries characterized by different economic conditions. Italy was representative of the semi-periphery and Bulgaria of the peripheral and then underdeveloped Balkans: both were external to the financial and industrial core of

¹ In fact, the affair was rather a typical case of avoiding exchange restrictions. According to Charles Kindelberger the ways to circumvent exchange controls are to bribe a central bank employee, to export money with the help of diplomatic offices, or to smuggle (Kindleberger, 1990, [1984], p. 531).

Europe.

The introduction of exchange controls typified the general collapse and fragmentation of the international monetary system, after the First World War put an end to almost 40 years of considerable economic and financial stability². The world economy suddenly split into blocs of countries with different economic and monetary behaviours. Two major attitudes towards economic policy confronted each other. The first was held by those who thought that a return to the old semi-automatic regulatory mechanisms was possible and indeed necessary, and who viewed the gold standard as an integral part of these mechanisms. The second attitude was held by those who believed that a new era of economic relationships had come and hence new rules (active government interference) were required. This was a time when the world economy was going through an extremely unstable transition which ended with the Second World War. It led to the creation of the IMF and the World Bank as new supranational regulators of the world monetary system.

As predicted by several economists at the time, exchange control turned out to be an extremely distorting and discriminating form of interference in monetary relations. According to Lionel Robbins, "Tariffs, exchange restrictions, quotas, import prohibitions, barter trade agreements, central trade-clearing arrangements – all the fusty relics of medieval trade regulation, discredited through five hundred years of theory and hard experience, were dragged out of the lumber-rooms and hailed as the products of the latest enlightenment" (Robbins, 1935, p. 114). From a global perspective, while the different blocs managed to preserve their relative shares of world export and the members of each bloc tried (and to some extent succeeded) to balance their foreign trade within the group, the emergence of isolated blocs resulted in a contraction in the amount of world trade.

Table 1: Percentage share of certain groups of countries in gold value of world exports, excluding the United States

| | 1929 | 1931 | 1935 | 1937 |
|-------------------------------------|-------|-------|-------|-------|
| European exchange control countries | 23.48 | 27.19 | 21.68 | 22.53 |
| Gold bloc | 14.53 | 15.86 | 13.41 | 12.01 |
| Other countries | 61.99 | 56.95 | 64.91 | 65.39 |

Source: League of Nations (1938).

Michael Heilperin gives a working definition of exchange control: "Exchange control," he writes, "consists in the centralization of all dealings in foreign exchange in the hands of a public authority (treasury, central bank, or an institution

² See Fromkin (2004) for a general discussion on the outbreak of the First World War.

created *ad hoc*)" (Heilperin, 1939, p. 238). Howard Ellis (1940, 1947) provides an extensive discussion of the instruments and forms of exchange control. He stresses the fact that exchange control "is not generally taken to include the following: tariffs, quotas, prohibitions and embargoes, subsidies, state trading and commercial agreements and treaties. It impinges upon these at points but does not include them" (Ellis, 1947, p. 877). According to Ellis, the main instruments of exchange control are: a government monopoly in foreign exchange dealings, government disposition over private holdings of foreign exchange and assets, enforcement of an overvalued or undervalued rate of exchange, multiple exchange rates, government licence to export and import, government disposition over the proceeds of exports, government allocation of exchange to imports, officially conducted bilateral clearing and officially conducted barter (Ellis, 1947, p. 877).

Various combinations of these instruments were used to achieve a mix of exchange controls either with regard to international economic matters (maintaining appreciated or depreciated exchange rates, attaining equilibrium in the balance of payments, allowing trade to go on without available foreign exchange, securing more favourable terms of trade, controlling or enforcing capital movements and economic welfare) or to domestic economic priorities (controlling inflation and deflation, increasing domestic employment, fostering industrialisation and other protectionist measures, preparing for war, providing revenue for the state, and discriminating for or against certain people or classes within the domestic economy). According to the Ellis classification, the most common and widely implemented exchange control instrument in Europe in the Thirties was the enforcement of overvalued rates of exchange as a device to avoid depreciation which would have ensued because of the withdrawal or flight of capital from debtor countries (Ellis, 1947, p. 878-879). Given the European experience of high inflation (hyperinflation in some countries) after the First World War, the original motive for exchange control was to defend a particular exchange rate as a counter inflationary measure. Since this exchange control instrument did not contribute to improving the balance of payments, other interference included active export encouragement and import restrictions.

Given the complexity of this topic, we will start with a description, drawing up a parallel chronology of events in Italy and Bulgaria supported by facts. The purpose of this paper is to analyze the motives behind governments' decisions to introduce and maintain exchange controls, the economic consequences of these decisions, the techniques adopted, and the order of events (Ellis, 1947). From a theoretical standpoint, we will study exchange control in the context of economic and monetary isolation (autarchy). To describe the motivation behind policy decisions, we are going to introduce appropriate elements of institutional and political economy. We will also take into account the macro influences of exchange controls on the real economy.

In the first two sections of the paper we will describe the history of exchange

controls in Italy and Bulgaria in the interwar period, illustrating it with data. In the third section, we will suggest some theoretical reflections and interpretations of exchange control. In the conclusion, we will try to derive some lessons from the Thirties' exchange control and draw parallels with today.

2. Italy: Stabilisation and Short-Lived Exchange Control

Measures aimed at regulating exchange rates had been introduced in Italy in 1917, during World War I. After 1921, however, most of the restrictions were lifted and it was only in the years 1934-35 that systematic exchange rates control was enforced as a consequence of protracted balance of payments deficits, in a context characterized by the so-called "quota novanta", the stabilization level chosen in December 1927 when the gold exchange standard was officially re-established and which the government had decided to defend at all costs. It soon became a means to promote reflationary monetary policies and to divert scarce resources towards sectors which appeared to be strategic in view of the war.

Let us briefly recapitulate the events³. During the First World War Italy had to face large current account deficits (from 1915 to 1918 import nearly tripled whilst export stagnated) which stemmed from huge capital disruptions caused by the conflict. As a consequence, the nominal exchange rate of the lira rapidly depreciated and this tendency was reinforced by speculative attacks following a major defeat by the Italian army in Caporetto, in November 1917. In December the government reacted by creating a new authority, the "Istituto Nazionale per i Cambi con l'Estero" (INCE, National Institute for Foreign Exchange) and by empowering it to impose a temporary monopoly of the foreign exchange market. The INCE was meant to offset speculation and to ensure that foreign currencies were primarily used to import raw materials and equipment needed by the military sectors (Raitano, 1995, pp. 276-9).

The postwar period in Italy was characterized by severe monetary and financial instability; the nominal exchange rate further depreciated between 1919 and 1921 as a consequence of current account deficits and speculative capital movements⁴. In

³ For a reconstruction of economic and institutional events in Italy during the interwar period cf. Toniolo, 1980; Zamagni, 1993.

⁴ Between 1913 and 1921 the value of the lira in terms of the dollar decreased from 5.27 (Lit/\$) to 23.46; in terms of the pound from 25.71 to 90.17. For most of this period, however, the nominal depreciation of the lira was insufficient to offset the loss in competitiveness caused by the differentials in inflation between Italy and its trading partners (in particular, United States and Great Britain). As a consequence, between 1915 and 1918 and between 1920 and 1922 the real effective exchange rate of the lira actually increased (from 101.2 to 130, base year 1900, and from 74 to 96.6, base year 1929, respectively; cf. Ciocca-Ulizzi, 1990). In 1919 and in the first half of 1920, on the contrary,

June 1921, however, the government decided to lift all restrictions in the foreign exchange market. The INCE was kept in existence but its role was restricted to a limited set of operations.

At the end of 1922, Mussolini was appointed prime minister in a situation characterized by political and social turmoil. Before long the new government proceeded to restrict political freedom but adopted, at least initially, a laissez-faire approach in economy policy and adhered to financial orthodoxy. The Minister of Finance, Alberto De' Stefani, severely cut public expenditure in order to reduce budget deficit. The monetary policy, however, was too accommodating and as a consequence inflation increased, reaching 15% in the third quarter of 1925 (Fratianni-Spinelli, 1997, p. 136). The balance of trade also worsened: nominal exchange rate in terms of dollars fell to 27.5. In February 1925, therefore, De' Stefani had to reintroduce some limitations on transactions in the foreign exchange market and entrusted the INCE with the task of gathering information on the amount of foreign credits and debts held by financial institutions and professional brokers (Raitano, 1995, pp. 296-7). In the second half of 1925 further measures aimed at curbing speculative capital movements were introduced by the new Minister of Finance, Giuseppe Volpi, as a preliminary step for the stabilization of the lira (Guarneri, 1988, p. 210; De Cecco, 2003). In November Volpi was able to reach a settlement of the war debts with the United States and UK. This move, by removing legal obstacles to international loans, was followed by large inflows of foreign capital.

In the short run, however, following the collapse of the French franc, the lira was targeted by speculative attacks: during 1926 the nominal exchange rate of the lira had fallen to 153 relative to the pound and to 31.5 relative to the dollar, raising widespread concern among small savers in Italy and financial circles abroad. In a highly publicized speech delivered in Pesaro, in August 1926, Mussolini committed his government to an outright "defense of the lira". This statement was followed by a centralization of issuing (the Bank of Italy was to become officially the only bank of issue in the country) and by severe credit restrictions. Nominal wages and some retail prices were also cut by 20% by decree. This determined a change of expectations and, in the following months, the nominal exchange rate between the lira and the pound rapidly decreased to 88-90. On 21 December 1927 the government officially pegged the lira to gold thereby adhering, similarly to most other European countries, to a gold exchange standard system⁵. The "gold content" of the currency was put at 7.918 grams per 100 lira; this implied a nominal exchange rate at 90 lire per pound and at 19 lire per dollar.

nominal depreciation was so fast that the real exchange rate decreased signaling an increase of the competitiveness of Italy (cf. Cotula-Spaventa, 2003, p. 216).

⁵ R. Decreto Legge 21/12/1927 n. 2325 "Per la cessazione del corso forzoso e convertibilità in oro dei biglietti della Banca d'Italia".

The reasons underlying Mussolini's decision to proceed to a sharp revaluation of the lira and the consequence of this measure on the Italian economy were debated by contemporary commentators and have also been explored at length by economic historians and historians of economic thought (cf. Barucci, 1981; Bini, 1981; Cohen, 1972; Falco-Storaci, 1977; Marconi, 1982). It would appear that political considerations were probably dominant. The middle class, which was the most important constituency of the regime, had been severely hit by postwar inflation and was strongly in favor of any measure aimed at increasing the internal as well as the external value of the currency. Sheer prestige also played an important role: the exchange rate adopted in 1927 was roughly the same as that which had prevailed in 1922, when Mussolini had taken power, enabling him to declare that, contrary to previous governments, his regime had been successful in defending the currency. The industrialists, especially those operating in the export sectors, were of course against "quota 90": indeed, they actively lobbied to stabilize the currency at a higher nominal rate (120 lire per pound). They were however partially compensated by cuts in wages and taxes and by the introduction of import duties.

As predictable, in spite of all the efforts made by the government to cut wages and prices, the Italian economy had to face a remarkable reduction of its competitiveness: between 1926 and 1927 the real effective exchange rate of the lira increased from 95.5 to 105.9 (Ciocca-Ulizzi, 1990, p. 367). As a consequence, export decreased from 18170 in 1925 to 15519 million lira in 1927; during the same year, however, import decreased even more (from 25879 to 20375 million) and the result was a short run reduction of the trade deficit (from 7335 to 4856 million)⁶. Therefore the situation did not appear to be particularly worrying, if we consider the fact that from the very beginning of the industrial take-off at the end of the nineteenth century, Italy had to face a structural imbalance of its net exports, which were compensated by other components of its current account, especially remittances from emigrants and tourism (Falco, 1995)⁷. During the Twenties remittances from emigrants actually decreased, but were counterbalanced by capital inflows resulting from loans contracted in the US financial market by Italian firms and municipalities. This implied an increase in Italy's foreign debt to a level which was considered excessive by the governor of the Bank of Italy, Bonaldo Stringher. Therefore, already in 1927 new measures were enacted which requested the government's authorization as a precondition to take out new loans abroad

⁶ This situation proved to be only temporary; in 1928, following a bad wheat harvest, trade deficit increased to 7456 millions of lira.

⁷ It is important to note that revaluation had serious consequences on the financial stability of firms: their debts increased in real terms and the value of their stocks decreased. As a result, their financial strength was compromised well before the onset of the Great Depression.

(Storaci, 1989, pp. 298-9).

Circumstances had already changed by 1928-29: attracted by stock market speculation and by a remarkable increase in interest rates as a result of a restrictive policy inaugurated by the Federal Reserve, American investors were more and more reluctant to subscribe new loans abroad and indeed withdrew part of the funds previously invested in Europe. Some Italian investors, on the contrary, found it profitable to buy back the bonds in dollars issued by Italian authorities. Furthermore, one has to consider the flow of sums paid by the Italian government to US and UK Treasury as a consequence of the arrangements concerning the loans obtained during the war (cf. Hirschman, (1939), p. 166). Therefore, capital account turned negative, whilst at the same time trade deficit worsened, following a further reduction in export and a slight increase in import. As a result, between December 1927 and December 1929 the reserves of the Bank of Italy decreased from 12105,9 million lira (in gold and convertible currencies) to 10795,4. In spite of this, in March 1930 the Ministry of Finance was bold enough to officially abolish every form of control in the exchange rate market (Guarneri, 1988, pp. 262-3).

The onset of the Great Depression, together with the protectionist measures adopted by several countries, brought the international trade to a collapse; besides that, Italian competitiveness was severely compromised by the devaluation of the pound in 1931 and by that of the dollar in 1933: the real effective exchange rate of the lira went up from 101.2 in 1930 to 112.4 in 1934 (figure 1). Not surprisingly, in 1933 the nominal value of export was roughly one third of that in 1927. Import also shrank as a consequence of the recession and, as a matter of fact, the trade deficit was lower, in nominal terms, in 1931-33 than in the Twenties. Taking into account net transfers, current account was actually in surplus (Banca d'Italia, 1938, p. 114). However, the drain of the reserves of the Bank of Italy continued also in these years following adverse capital movements [cf. Table 2]. Once more, these were mainly due to purchases of Italian bonds issued abroad: the market price of these securities had decreased remarkably and it became even more profitable for Italian investors to buy securities characterized by a very low risk of default and which guaranteed a high yield in dollars.

Figure 1: Effective exchange rates of the Italian lira (index 1929=100)

⁸ Net export deficit amounted to 7476 millions in 1928 and to 6536 in 1929.

⁹ A positive side-effect of these adverse capital movements was that Italy's external debt substantially decreased (see Banca d'Italia, 1938, p. 114).



Source: P. Ciocca-A. Ulizzi (1990) (the rise of the index means appreciation, the fall means depreciation).

Even in this unfavourable situation the Italian government was resolute in defending the stabilization level decided in 1927. At the end of the London Conference in 1933, the Italian Minister of Finance Guido Jung adhered to the "gold bloc" by subscribing, together with the representatives of France, Switzerland, Belgium, the Netherlands and Poland, a pledge to defend the gold standard at the existing parities. Italy, declared Guido Jung on that occasion, had "stabilized its currency to gold since December 1927 and [was] firm in defending the fixed exchange rate established at that time"¹⁰. In order to improve competitiveness, the regime enforced two consecutive cuts in nominal wages in 1930 and 1934. In September 1931, after the devaluation of the pound, it imposed a 15% import duty.

It soon became clear, however, that further deflation had excessive economic and political costs. The fall of prices during the early Thirties had severely hit the Italian economy: many firms were unable to reduce their production costs in the same proportion as their revenues and had to face serious losses, whilst the burden of their debt increased in real terms, threatening their stability. Already in 1933 the Bank of Italy had to increase circulation in order to bail out some leading banks

¹⁰ Quoted in Cotula-Spaventa, 2003, p. 300. "The Italian government", added Jung in his speech, "maintains that wages and savings are sacred and that these are the only sound means to ensure economic growth".

(among them, Banca Commerciale and Credito Italiano) which in the previous decades had invested heavily in the industrial sector. The drop in prices had been particularly severe in agriculture, squeezing the incomes of the farmers. In 1934, furthermore, the balance of trade abruptly worsened as a consequence of an increase in imports and a further reduction of exports. The ensuing deficit (2.6 billion lira) had to be cleared utilizing the already depleted reserves of the Central Bank [cfr. Table 2]. Since foreign exchange holdings had been exhausted, its governor, Vincenzo Azzolini, had to mobilize for the first time the stock of gold kept in the vaults of the bank (Hirschman, 1939, p. 167). This proved to be a turning point and the government quickly reacted by imposing both systematic exchange rate control and quantitative import restrictions.

Table 2: Reserves of the Bank of Italy and reserve ratios (millions of lira).

| Years | Reserves in gold | Foreign exchange | Total | Coverage ratio (%) |
|-------|------------------|------------------|---------|--------------------|
| 1927 | 4547.1 | 7558.8 | 12105.9 | 55.5 |
| 1928 | 5051.9 | 6018.9 | 11070.8 | 55.8 |
| 1929 | 5190.1 | 5151.2 | 10341.3 | 55.1 |
| 1930 | 5296.8 | 4327.5 | 9624.3 | 53.2 |
| 1931 | 5626.3 | 2170.2 | 7796.5 | 47.6 |
| 1932 | 5839.5 | 1304.5 | 7144.0 | 46.7 |
| 1933 | 7091.7 | 305.0 | 7396.7 | 49.9 |
| 1934 | 5811.5 | 71.7 | 5883.2 | 41.2 |
| 1935 | 3027.2 | 367.4 | 3394.6 | 19.5 |
| 1936a | 2338.5 | 37.1 | 2375.6 | |
| 1936b | 3958.8 | 62.8 | 4021.6 | 22.4 |

Note: 1936a: lira 1927; 1936b: lira 1936, after devaluation.

Source: Banca d'Italia, Relazioni del Governatore, Tipografia della Banca d'Italia, Roma, 1927-1937.

On 26 May 1934, a decree by the Ministry of Finance prohibited any transaction in foreign exchange except for the purpose of financing effective trade and industry requirements or for traveling abroad. Any purchase by Italian investors of stocks and bonds issued abroad, as well as export of banknotes and cheques, were also prohibited. In December, a further decree prescribed that foreign exchange obtained in payment for goods and services previously exported had to be sold to the Istituto Nazionale Cambi con l'Estero. Besides that, banks and firms had to offer the INCE and, once requested, sell to it, all foreign credits and

assets in their possession. In the following months other measures were enacted, which enabled the government to take complete control of the exchange market. In particular, on 20 May 1935 a new department was created to coordinate and regulate, under the direct supervision of the Prime minister, the distribution of foreign exchange between firms ("Sovrintendenza allo scambio delle valute"). The new institution was directed by Felice Guarneri, former head of the economic research department of the Italian manufacturers association (cf. Banca d'Italia, 1938; Assonime, 1940; Raitano, 1995).

In the years 1935-36 these measures were confirmed and even reinforced in the face of an international policy decision which ultimately resulted in the disruption of the financial stability Italy had reached during the Twenties. In October 1935, after several months of preparation, Mussolini attacked Ethiopia. For the Italian economy this initially meant a substantial increase in public expenditure and in internal demand which led to a considerable reduction of unemployment, whilst the reserves of the Bank of Italy were subjected to a further drain. Shortly after the war began, Italy was declared an aggressor country by the League of Nations and was subjected to sanctions which restricted its ability to export and import goods. This implied a further tightening of exchange control. On 29 December 1935 the Department directed by Guarneri, now denominated "Sottosegretariato di Stato per gli Scambi e le Valute", took control of the INCE and of the "Istituto Nazionale Fascista per il Commercio Estero" (an authority whose aim was to promote Italian export) becoming de facto the leading centre for economic policy decisions. In 1937 it was transformed into a Ministry. Exchange rate control, writes Paolo Baffi, "became one of the main tools in the mobilization of resources to which the Italian economy was subjected for a whole decade (October 1935 to April 1945) by virtue of almost continuous involvement in military activities of greater or lesser importance" (Baffi, 1958, pp. 399-400).

As mentioned, the government also introduced severe limitations on import starting from 1934-35 (in the form of licenses, quotas etc.). Furthermore, similarly to other countries, it increasingly utilized bilateral clearing agreements as a device for circumventing the restrictive effects on international trade of quotas and exchange rate controls. The technique was the following: in each country, importers of goods made payments in local currency to an agency (in Italy the INCE). These sums were used to pay the exporters, again in local currency (Assonime, 1942; Renzi, 1943). A key aspect was the choice of the exchange rate to be used in computing the value of trade in each country. The first agreements were stipulated by the Italian authorities in 1932 and included countries which had imposed a strict exchange control: Austria, Germany, Bulgaria, Hungary, Jugoslavia, Romania, Chile and Argentina (Guarneri, 1988, p. 355). At the beginning their aim was quite limited: to defreeze credits accumulated in previous years by Italian exporters. In the second half of the Thirties, however, when the external constraint became more binding, an increasing proportion of international

trade started to be regulated by bilateral clearing: in 1939 over 50% of Italy's import and export was settled in this way (Tattara, 1991, p. 463). The most important agreement was the one with Germany. At the end of the nineteenth century this country was already a key trading partner for Italy, providing 12.2% of the latter's total import and absorbing 16% of its total export; Italy, on the contrary, played only a secondary role for Germany (the data are in this case 32 and 25 respectively; cf. Tattara, 1991, p. 461). Furthermore, the trade balance was mainly against Italy 11. In October 1934, two years after the initial agreement mentioned earlier, a new and more comprehensive agreement was signed by the representatives of the two countries. It presented two innovative points: i) invisible items, particularly tourism and workers' remittances, were included in the clearing as a measure to balance the structural deficit of Italy's net export of goods; ii) 10% of the total value of German export to Italy had to be settled in hard currency paid to the Reichsbank. Similarly to other deals concluded by Italy in this period, the 1934 agreement was based on the principle of "delayed payment (waiting principle)¹²": Italian exporters obtained the payment of goods sold to Germany "within the availability of the remittances [...] arriving from the sale of German goods in Italy" (Tattara, 1991, p. 474).

After the 1934 agreement, Germany quickly became by far the most important export and import market for Italy. In the years 1935-39 it supplied nearly a quarter of the goods imported by Italy and bought 17.7% of the latter's export. During and after the Ethiopian war Germany became a key source of coal (30% of total import) and other raw materials¹³. In the same years, Italy conversely continued to play a secondary role for Germany, providing only 2.5% of its imports and acquiring only 4.9% of its exports. This disparity had serious consequences: as observed by several economists, when the trading partners in a clearing agreement are characterized by different economic strength and bargaining power, economic dependence and exploitation can ensue (Demaria, 1939; Assonime, 1942; Tattara, 1991). Indeed, after 1936-37, Germany, which had the strongest economy in continental Europe, successfully managed to buy from Italy more than it exported to it. In this way German authorities were able to obtain two results: i) they borrowed precious resources which they needed for the war: "clearing balance claims", observes Yeager, "as long as they went unspent, represented forced loans to Germany from countries poorer than itself" (Yeager, 1966, p. 325); ii) by diverting Italy's purchases towards Germany's products, they increased the

¹¹ "From the beginning of the century to 1930, the ratio of German imports to German exports had varied from 0.65 to 0.80" (Tattara, 1991, p. 475). ¹² See part III.

¹³ The import of manufactured goods from Germany, on the contrary, declined partly as a consequence of the "autarky", the program of national self-sufficiency promoted by Mussolini.

economic and political dependence of the former country. In order to help the Italian exporters who otherwise had to wait several months before getting their payments, the INCE was authorized to emit warrants for the amounts due which could circulate as credit instruments. Therefore the principle of "immediate payment" (financing principle) was introduced, which had positive effects on internal economic conditions.

On 5 October 1936, following the collapse of the "gold bloc", the government devalued the lira by 40.93%, the same percentage adopted in 1933 by the US authorities. As a result export increased, substantially relaxing Italy's external constraint, albeit only in the short run (Pavanelli, 1990). Some measures were adopted to check inflation, putting under control prices and rents and abolishing a 15% duty on import, introduced in 1931.

Any hope of restoring external and internal stability was however compromised by the increasingly aggressive international stance adopted by the regime between 1937 and 1939: this included participation in the Spanish Civil War, the annexation of Albania, heavy rearmament. Predictably, this resulted in huge budget deficits, which were financed partly by issuing Treasury bonds and partly by an increase in monetary base.

From a macroeconomic point of view, the logical consequence of the increase in public expenditure and in private investments in the military sectors was a substantial worsening of the deficit in net exports. Given the political and military situation, however, no foreign country or international institution was ready to lend the resources Italy needed. Italy, furthermore, lacked the bargaining power necessary to exploit clearing agreements in its own interest. At the same time the reserves of the Central Bank had already been depleted in the first part of the Thirties and during the Ethiopian war. Even if all available foreign currency was diverted, through exchange rate control, to buy the raw materials and goods needed to fight the war, external constraint posed an ultimate check on the military and political ambitions of the fascist regime and paved the way for its defeat

3. Bulgaria: Stabilization and Long-Lasting Exchange Control

The Balkan Wars and the First World War put a severe strain on Bulgarian economy and finance. Under the Treaty of Neuilly, Bulgaria had to pay a huge foreign debt and above all reparations equivalent to a quarter of the national income ¹⁴.

Inflation ("expensiveness" - the term used at the time by Bulgarian economists to describe price increases) was very high and also devalued the

¹⁴ For an extensive discussion on Bulgarian economic development in the 20th Century, see Avramov, 2001.

national currency. The trade balance between 1919 and 1929 was at a deficit except for three years, with the surpluses far too small to make up for the negative balance in the rest of the period (Svrakoff, 1941, [1936], p. 300). The stages of Bulgarian stabilisation logically and chronologically followed the stabilisation processes in other countries, presenting the peculiarities of the periphery and of developing countries in general (for details, see Koszul, 1932 and Ivanov, 2001). As in other European countries, financial stabilisation was conducted in the context of orthodox monetary ideology which saw a stable currency and balanced public finances as the bases of economic development.

From its very beginning Bulgarian stabilisation was accompanied by a number of exchange controls and restrictions ¹⁵. The Foreign Currency and Foreign Currency Receivables and Credit Trading Act was enacted on 12 December 1918. A week later, on 19 December, the Foreign Exchange Institute (*Kambialen Institut*) was established with the main purpose of concentrating foreign currency inflows into the country and smoothing the highly volatile exchange rate. The Kambialen Institut having failed to improve the foreign exchange market (the exchange rate was subject to speculation and induced overall economic uncertainty), new exchange controls were put into practice. On 12 December 1923, the Foreign Exchange Act gave the BNB a foreign exchange monopoly. The foreign exchange market in Sofia closed and all bids and offers were directed to the BNB. The direct reason for this early form of exchange control was the depletion of foreign reserves, mostly denominated in Reichsmarks, due to German hyperinflation in 1923.

Despite signing new trade agreements in August 1925 and introducing more protectionist tariffs in 1926, Bulgaria's balance of payments and foreign currency balances did not improve. The conventional methods of restricting imports and promoting exports were no longer efficient.

New measures enforcing the exchange control¹⁶ were introduced in May 1924, logically related with the *de facto* stabilisation of the Bulgarian lev. A 1926 law fixed the exchange rate at 139 leva to the dollar (the BNB bought a dollar for 137.20 leva¹⁷) and banknote cover was set at a third. In this case, exchange control genuinely fostered stabilisation which demanded foreign reserves (obtained in the

¹⁵ A detailed overview of the various foreign trade restrictions and exchange controls in Bulgaria is provided by Ivanov, 2001, Chapter 2.

¹⁶ A sharp speculative doubling of the lev which hit Bulgarian tobacco sales abroad was recorded in June (Nenovsky, 2006). Two types of lev were introduced – home and foreign – with the home lev becoming foreign (and usable to pay for imports) only with the BNB's leave. This dual national currency was not a Bulgarian invention as can be seen from the example of Romania (Royal Institute of International Affairs, 1933, p.115).

¹⁷ On 24 March 1926 the bid rate became 138.80, falling to 138.50 on 24 September 1926 as the BNB tried to attract foreign capital by cutting margins.

form of a League of Nations' Stabilisation Loan) and balanced public finances with customs revenue being a major item. A law of 22 November 1928 designated the BNB as an independent monetary institution in the spirit of the international agreements.

Direct exchange market control invariably accompanied manipulation of the other two basic macro markets: imports and exports. Thus followed the 1928 Wine Export Promotion Act, the 1932 Grape Export Promotion Act and the 1935 Meat Export Promotion Act. In 1931 an Export Institute was set up, transformed into the Foreign Trade Institute (*Institut za vunshna turgovia*)¹⁸ in 1940. Alongside export encouragement, import restrictions were more often and more effectively used. It is interesting to point out that customs tariffs between 1918 and 1930 always involved administrative exchange rate manipulations. The customs exchange coefficient (the rate at which paper leva were converted into gold leva for the purposes of customs duties) was significantly different from the market rate. According to Toshev, thanks to this manipulation the government managed to increase tariffs by 80 per cent over just two years (1926 and 1927).

Table 3: Bulgaria: customs (import) coefficients and official exchange rate of the paper lev (1918-1930)

| 1918 | | 1919 | | 1920 | | 1921 | | 1922 | | 1928 | 1930 |
|---|---------------|-------------|------|------|-------|------|------|-------|------|--------|------|
| 15 XI | 1 VII | 15 VIII | 1 XI | 1 I | 1 VII | 11 | 12 X | 1 VII | 30 X | 26 VII | 3 VI |
| Customs coefficient | | | | | | | | | | | |
| 2 | 2.5 | 3 | 5 | 6 | 7 | 9 | 12 | 14 | 15 | 20 | 27 |
| Exchange | e rate of the | he paper le | ev | | | | | | | | |
| 1.66 | 4.22 | 4.22 | 6.05 | 8.2 | 8.96 | 13.5 | 28.2 | 29.94 | 32.3 | 27 | 27 |
| Exchange rate of the paper lev/ customs coefficient | | | | | | | | | | | |
| 1.2 | 0.59 | 0.71 | 0.83 | 0.7 | 0.78 | 0.67 | 0.43 | 0.47 | 0.46 | 0.74 | 1 |

Source: Toshev (1943, p. 67).

Exchange premia, introduced for a limited number of private deals in 1933 and considerably spread by 1935, acted in the same direction of depreciating the lev, 'circumventing the fixed exchange rate', loosening deflation, and enhancing the inflow of convertible gold exchange. By performing a 'market-determined' depreciation of the official BNB rate, exchange premia gave exporters the stimulus to export more at lower prices¹⁹ (see box 1).

¹⁸ In 1930 the Hranoiznos (Food export agency) was established and invested with monopoly powers to buy and trade cereals as a specific tool against deflation. Because of the negative price scissors between buying and selling prices, losses were accumulated and transferred to the budget. Initially half and then a quarter of the payments to farmers were in treasury bonds representing domestic government debt, which amounted to around 400 million gold leva (Beroy, 1989, p. 465).

¹⁹ Christophoroff (1939, 1947) provides a thorough description of the mechanism and role

Box 1 Import tariffs, exchange rate premia and the real exchange rate

Let us consider trade and exchange controls together, taking into account import tariffs and currency premia. If t is the tariff and f is the currency premium (usually f=0, but it could be f<0, in the case of the sperrmark in the Bulgarian private compensation market after 1935, for example), and considering the tariff as an addition to the foreign price level P^* (P is domestic price level), and the currency premium as an addition to the nominal exchange rate level e, the well-known formula for the real exchange rate e_r becomes:

$$e_r = \frac{e(1+\boldsymbol{j})/P}{1/P*(1+t)} = \frac{eP*(1+\boldsymbol{j})(1+t)}{P}$$

The condition for real depreciation of the national currency (competitiveness gain) is:

$$(1+j)(1+t) > 1$$
 or $t > \frac{-j}{1+j}$.

Returning to the international scene, efforts at monetary and financial stabilisation rapidly yielded to the Great Depression which started in the USA and quickly reached Europe (first Austria, then Hungary, Germany and other countries). At the time countries used independent strategies to face the crisis (Eichengreen, 1997, [1996]; Eichengreen and Sachs, 1985)²⁰. Three blocks were formed: i. countries devaluating their currencies (United Kingdom (1931), the USA (1933), and Greece (1932)²¹; ii. countries maintaining the gold standard, with France in the lead, and conducting a strict deflationary policy to limit wage and price growth; and iii. countries preserving parity and exercising exchange control (Germany, Italy, Hungary, Austria).

Bulgaria joined the third group, being sceptical of the foreign trade

of the exchange premia. At the beginning they differed across currencies which put them closer to Ellis' definition of multiple exchange rates as an exchange control instrument.

Many Bulgarian authors speak of a *collapse* of the world economy (Svrakoff, 1941, [1936], p. 310). A similar overview of the mechanisms of adaptation is given by Einzig (1934), p. 9. In Mises's opinion (1932): "Countries which do not resort to inflation ...do not put themselves in a position where it might appear advisable to have recourse to those measures comprised under the term Foreign Exchange Control" (Einzig, 1934, p. 9).

²¹ In late 1931 16 countries preserved the gold standard, 12 had currency parity, and another 11 kept gold parity by restrictions on trading foreign exchange (Svrakoff, 1941, [1936], p. 312).

liberalisation measures recommended by the 1927 Geneva Conference²². It is our general assumption that the reasons for Bulgaria introducing exchange control and opposing devaluation and deflation²³ were as set out below:

First, Bulgaria was a debtor country which considered debt service a key priority (Leonidoff, 1966, 1969). In fact Bulgaria was an extremely diligent payer who pursued to preserve its reputation through debt service (Ivanov, 2004). Due to its political isolation after WWI, however, its endeavours as a good payer were not recognised and it had to shoulder its liabilities with almost no relief (Ivanov, 2001, 2004) ²⁴. In his speech marking the BNB's 50th anniversary, then-prime minister Andrey Lyapchev said, "one would be hard put to find quite such a young nation in such exacerbated circumstances as ours these past fifty years, yet which can boast that it has always occupied the position of an exemplary payer to its foreign creditors" (BNB, 2001, p. 135).

With respect to structure, Bulgaria's debt was denominated in gold backed leva and was mostly owed to non-devaluing countries²⁵. According to the Royal Institute of International Affairs, "in Bulgaria it is almost certain that the transfer question has predominated" (1936, p.98) and the purpose of maintaining the currency on a gold basis "has presumably been to avoid an increase in the costs of the foreign debt service" (1936, p.129). Even before reparation payments began in October 1923, the foreign debt service had reached the amount of 112 million gold francs between 1918 and 1922: 16.3 per cent of the budget expenditure. Reparations under the 27 November 1919 Treaty of Neuilly were added to this. reaching 2250 million gold francs at a 5 per cent annual interest over 37 years, plus occupation expenses. This represented a quarter of the national wealth. The sterling devaluation offered some relief to Bulgaria since its debt was predominantly in pounds. Debt service now accounted for 11 per cent of the budget expenditure; there was no great BNB asset loss since a comparably small amount of assets was denominated in Sterling (the Royal Institute of International Affairs, 1936). Summarising the opinions of many economists at the time, a hypothetical devaluation would have certainly increased the national debt burden, while any possible advantages would have been marginal (Sarailiev, 1937, p. 27).

Second, the balance of payments constraints were particularly tight, and not

²² In 1926, however, there was a partial reduction of restrictions. In spite of much comment on the decrease of trade and exchange restrictions, the Andrey Lyapchev government did not have the political will to act.

²³ Christophoroff also points out that exchange control is a way of "fighting deflation" (Christophoroff, 1939, p.12)
²⁴ Bulgaria continued to pay reparations in 1933.

²⁵ French claims on Bulgaria were about 26 per cent of the overall Bulgarian debt. Next in the creditors' list were Italy at 25 per cent, Greece at 12.7 per cent, and Romania at 10.55 per cent.

only as regards foreign debt service. The prices of agricultural products, which accounted for most of the Bulgarian exports²⁶, fell sharply on international markets and aggravated trade terms. The September 1932 Stresa Conference which focused on possible assistance to Southern European countries (a major part of the so-called 'agrarian bloc') noted that the price drop reached 70 per cent (Bonnet, 1933, p.21). A fund concentrating revenue from the sale of agricultural products to developed countries was suggested in order to be used as partial debt service (the United Kingdom vetoed it).

Third, systematic exchange control could be interpreted as a defence against restrictions introduced by Bulgaria's trading partners. The farming price drop was combined with a number of restrictions on the import of agrarian products to Germany and France to protect indigenous farmers by economic and political means (Raupach, 1969). Turkey, an important Bulgarian trading neighbour, also introduced some limitations on Bulgarian imports. In April 1932 the drachma joined the devaluers' club (Lazaretou, 2005) and Bulgaria lost its competitive and long-standing positions on the Greek market.

The fourth and direct cause of exchange control was the intensification of capital outflow from Bulgaria at the end of 1931. This followed the collapse of the fragile monetary and financial stabilisation of the late Twenties and the Sterling devaluation. In addition to this global imbalance, Boshulkov (1927) provides a list of long-term domestic factors such as the purge and confiscation of capital claimed to be illegally accumulated during the Wars, and political instability, which certainly contributed to decrease Bulgarian capital accumulation and foreign reserves.

Systematic exchange control came into force in Bulgaria ²⁷ with the 15 October 1931 Foreign Exchange Trading Act and the BNB Ordinance No. 1 of 20 October²⁸. These instruments gave the BNB a strict foreign exchange monopoly, defining in great detail how foreign exchange was to be submitted to the BNB and how it could be dispensed for imports. Lists of luxuries the import of which was limited began to be compiled and amended. To keep foreign capital in Bulgaria and halt depletion of foreign reserves, the BNB raised interest rates, imposing further import restrictions in 1933. As other countries (including major trade partners Greece and Turkey) imposed exchange and trade constraints, the only reasonable way of letting foreign trade 'go on' was through bilateral clearing and even officially conducted barter (Ellis, 1947)²⁹. In a sense, exchange control was unilateral, while clearing – an instrument to overcome the disadvantages of

18

_

²⁶ Romania faced similar problems: Madgearu, V. (1939). For an overview of the Balkans economic situation in the Thirties, see Royal Institute of International Affairs (1936).

²⁷ In June 1931 the Naroden Blok government took office after the Demokratichen Sgovor.

²⁸ Also followed by Ordinance 4.

²⁹ A similar 'going on' argument is stressed by Jacque Rueff (1966, p. 79).

exchange control – was *bilateral* with some prospects of becoming $multilatera\hat{\ell}^0$. Thus clearing followed exchange control as the latter inevitably hampered international finance and trade.

Table 4: Selected Bulgarian macroeconomic indicators, 1927-1939

| Years | Total | Coverage | Trade | Budget | Years |
|-------|----------------|-----------|----------------|----------|-----------------|
| | reserves | ratio (%) | balance | balance | |
| | (mill of levs) | | (mill of levs) | (mill of | |
| | | | | levs)1 | |
| 192 | 7 13078 | 28.3 | 489 | | |
| 192 | 8 12897 | 31.2 | -810 | 347 | 1928/9 |
| 1929 | 9 8984 | 42.2 | -1928 | 185 | 1929/30 |
| 193 | 0 9249 | 37 | 1601 | 1143 | 1930/1 |
| 193 | 1 8620 | 36.6 | 1274 | -891 | 1931/2 |
| 193 | 2 7519 | 35.8 | -88 | -746 | 1932/3 |
| 193 | 3 7442 | 36 | 644 | -233 | 1933/4 |
| 193 | 4 7278 | 35.3 | 287 | -246 | 1934 (9 months) |
| 193 | 5 6549 | 34.4 | 244 | -278 | 1935 |
| 193 | 6 7158 | 33.8 | 729 | 283 | 1936 |
| 193 | 7 8196 | 31.9 | 34 | 642 | 1937 |
| 193 | 8 8250 | 31.8 | 644 | 510 | 1938 |
| 1939 | 9 11677 | 29.9 | 868 | | |

Note: 1) Christophoroff, A. (1939), p. 139.

Source: Statistical Yearbooks of the Kingdom of Bulgaria, (1934, 1937, 1941).

Bulgaria signed clearing agreements with Austria (October 1931), Switzerland (April 1932), Germany (June 1932), and Italy (1933). At first clearing covered a small share of foreign trade but it soon became widespread and according to Michaely (1962) and Friedman (1976) occupied two thirds of trade turnover in the Thirties. Benham (1939) and Neal (1979) argue that Bulgaria, together with Hungary, was the country which used bilateral forms of international trade to their utmost, while being the sole country managing a fixed clearing exchange rate for the entire period of restrictions. In Michaely's calculations (Michaely, 1962, ?. 691) Bulgaria ranked last in a sample of 60 countries, with bilateralism

³⁰ This Nazi wartime project (1940-'42) was never systematically put into practice. In the case of Bulgaria trilateral agreements were used more after 1935 (see Christophoroff, 1939, p. 36).

representing some 87 % of its foreign trade in 1938 compared with an average of 70 %. It is interesting to note that in successive rankings for 1948, 1954, and 1958, Bulgaria kept the last position, this time in the context of the Eastern bloc³¹.

Many authors like Friedman (1976, ?. 117) shared the opinion that Germany was the logical clearing and bilateral partner for Central and Southern European countries (table 4) as a natural reaction against British and French tariff and nontariff restrictions under which trade with Bulgaria was bound to foreign debt service³². Moreover, Britain and France did not extend credit lines as Germany did and they did not have similar markets and domestic demand. It was natural to partially compensate for the contraction of trade with France and Britain by expanding trade with Germany and Austria.

Under clearing importers pay in their national currencies, depositing money with their central banks, while exporters get paid in their national currencies by their central banks. Settlement is at an exchange rate agreed in advance. At first glance, the country with a stronger or appreciating currency loses out by accumulating positive clearing balances which cannot be settled (for details see Neal, 1979) and thus attempts to increase trade outside clearing agreements.

The difficulties of clearing and the need for greater flexibility prompted the appearance of a new institutional form of international trade: bilateral private trading with exchange rate premia; in 1933 compensation offices were established at chambers of trade. Bilateral private compensations were paid directly to importers in their national currencies.

Table 5: Bulgarian Clearing and Non-Clearing trade.

³¹ Christophoroff (1939) provides his own calculations of this indicator.

³² See for example the Royal Institute of International Affairs (1936, p.131). Heinrich Hunke, chairman of the Council for German Economic Encouragement, underlined the differences between French/British and German Southern European policy in a 1942 Sofia speech which stated that trading with Germany had saved Southern Europe and the Balkans (Hunke, 1942, ?. 16-17).

| Years | | Export (s | hares, %) | | Import (shares, %) | | | | | |
|--------------------|--------------------------------|-------------------------------|---------------------------------|------------------------------|--------------------------------|-------------------------------|---------------------------------|------------------------------|--|--|
| | Clearing in total export | Germany in total export | Germany in total clearing | Non- clearing in total | Clearing in total import | Germany in total import | Germany in total clearing | Non- clearing in total | | |
| | | | | export | | | | import | | |
| 1934 | 78.97 | 48.05 | 60.84 | 21.03 | 78.3 | 48.87 | 62.43 | 21.7 | | |
| 1935 | 77.25 | 49.48 | 68.09 | 22.75 | 80.19 | 59.82 | 75.11 | 19.81 | | |
| 1936 | 69.44 | 50.53 | 72.78 | 30.56 | 81.7 | 66.67 | 81.58 | 18.3 | | |
| 1937 | 65.52 | 47.11 | 71.91 | 34.48 | 79.9 | 58.22 | 72.82 | 20.1 | | |
| 1938 | 77.24 | 58.86 | 76.21 | 22.76 | 74.02 | 51.43 | 70.22 | 25.98 | | |
| 1938 ^{a)} | 71.68 | 51.49 | 71.78 | 21.4 | 74.74 | 54.1 | 72.38 | 25.32 | | |
| 1939 ^{a)} | 72.81 | 59.43 | 81.63 | 27.19 | 80.89 | 61.04 | 75.46 | 19.05 | | |

Note: ^{a)} – *export/import data refer to the first four/five months of the year.*

Source: Christophoroff, A. (1939) "The Course of the Trade Cycle in Bulgaria, 1934-1939", p. 46, p.48.

Studying the clearing mechanism in greater detail, however, reveals two forms of payment. The first implies that the foreign bank (the BNB in this case, providing there was a clearing surplus for Bulgaria) had Reichsmarks (spermarks) at its disposal and paid to the importer in leva (e. e., it bought Reichsmarks, called 'blocked marks'), thus increasing Bulgarian money supply and income and hence driving up import demand. In this case the BNB supported the Reichsmark by not allowing it to depreciate. The clearing foreign exchange obtained from clearing here was on the asset side of the BNB books. This was 'the principle of immediate payment.'

The second form, described as 'the principle of delayed payment', implied that Bulgarian exporters waited for the sale of German goods and then bought Reichsmarks with their blocked leva ³³. In this case the BNB refused to buy blocked marks until they had been requested by importers of German goods. Until such a request was made the Reichsmark would depreciate on the Bulgarian market. In this case the holding of blocked Reichsmarks did not create money, being on the off-balance sheet.

According to the literature dedicated to the subject, the principle of immediate payment was advantageous to depressed Southern Europe because it was widely believed that expanding money supply would cut unemployment rather than lead to sharp price rises. According to Neal (Neal, 1979, ?. 393) the bigger the clearing surplus and the higher the mark rate were under the principle of immediate payment, the stronger the expansionary effect for Central and South European central banks would be. Thus Hungary, which adhered to the principle of

2.1

³³ For more details see Lindert and Kindleberger (1983, [1982]) and Kindleberger (1988, [1973]). Sometimes the two methods are termed the financing and waiting principles.

immediate payment, experienced economic growth and an improving balance of trade. Romania, in contrast, exercised the principle of delayed payment which impacted its economic development (Neal, 1979)³⁴. Bulgaria, as Hungary, applied the principle of immediate payment in clearing, and the effects on money supply expansion can be studied in the balance sheet data (table 6). The increasing value of Miscellaneous Foreign Currencies on the asset side of the BNB books closely followed receipts of non-gold bloc foreign exchange from clearing and other agreements (BNB, 2001). The growth of this item was much faster after 1938, when huge positive balances in German clearing were recorded.

Table 6: BNB balance sheets 1928-1938 (millions of leva)

| Assets | 1928 | 1930 | 1932 | 1934 | 1936 | 1938 | 1940 |
|--|-------|------|------|------|------|------|-------|
| Gold and silver holdings 1 | 1598 | 1879 | 1874 | 1900 | 2049 | 2586 | 2301 |
| Receivables in gold foreign currencies | 2736 | 481 | 92 | 26 | 0 | 0 | 4 |
| (article 10 of BNB Law) | | | | | | | |
| Other foreign currencies | 534 | 152 | 116 | 174 | 772 | 1279 | 2336 |
| Domestic credit ² | 5362 | 4267 | 3913 | 3724 | 4336 | 4829 | 8021 |
| Treasury bonds | 0 | 0 | 130 | 310 | 0 | 0 | 0 |
| Other items ³ | 164 | 375 | 247 | 252 | 215 | 146 | 557 |
| Total assets | 10394 | 7154 | 6373 | 6386 | 7372 | 8839 | 13219 |
| Liabilities | | | | | | | |
| Capital | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Reserve funds | 1149 | 1169 | 1191 | 1240 | 1241 | 1188 | 1207 |
| Banknotes in circulation | 4173 | 3296 | 2635 | 2449 | 2571 | 2800 | 6518 |
| Deposits ⁴ | 3862 | 1817 | 1813 | 1872 | 2382 | 3707 | 3785 |
| Other liabilities ⁵ | 637 | 287 | 203 | 277 | 546 | 443 | 937 |
| Profit | 71 | 83 | 32 | 48 | 133 | 202 | 272 |
| Total liabilities | 10393 | 7154 | 6373 | 6386 | 7372 | 8839 | 13219 |

Note: 1. Gold and silver holdings including coins. 2. Domestic credit comprises receivables from government, banks, commercial paper, and effects. 3. Property and other assets. 4. Demand, time and other deposits by government and banks. 5. Liabilities in gold and other foreign currencies.

Source: Original balance sheet data from the BNB (1999) 120 Years Bulgarian National Bank, p. 130.

In late 1939 exchange control was transformed from an instrument of stabilisation into a lever for marshalling war resources. The military logic of exchange control was apparent much earlier in Germany and Italy, which in the late Thirties subordinated foreign trade to war needs. The final point in the relationships with Bulgaria for instance (and before that with Romania) was the 1940 clearing agreement (the BNB did not participate in negotiations because of its

2.2

³⁴ As mentioned above, Italy later altered the delayed payment principle to immediate payment.

specific position) which was extremely slanted in favour of Germany (the Reichsmark rate was unfavourable, for one thing), allowing it to transfer resources from Bulgaria. Since 1934 Bulgaria had scored positive clearing balances which were covered neither by import of machines and goods, nor by capital inflow from Germany. In principle Bulgaria exported agricultural products and imported commodities and industrial materials (table 7)³⁵.

Table 7: Share of goods categories in total import (%)

| Goods categories | 1921 | 1923 | 1927 | 1929 | 1931 | 1933 | 1935 | 1936 |
|---|------|------|------|------|------|------|------|------|
| Commodities and raw materials (incl. fuels) | 38.5 | 50.2 | 54.3 | 56.4 | 58.9 | 70.2 | 63.4 | 63.8 |
| Final manufactured goods | 59.6 | 48.1 | 43.3 | 41.1 | 39.2 | 28 | 34.9 | 34.4 |
| Food and drinks | 1.9 | 1.7 | 2.4 | 2.5 | 1.9 | 1.8 | 1.7 | 1.8 |

Source: Toshev (1943, p.90).

In Bulgaria, as elsewhere, exchange control performed another function alongside monetary and financial stabilisation and balance of payment restrictions ³⁶. Though considered only implicitly, this function was growing in importance. It entailed using exchange control to stimulate or restrict sectors and branches of the economy; according to Paul Einzig exchange control became a "weapon of commercial policy" (Einzig, 1934). Moreover, the League of Nations' report on exchange control noted:

"... the control is now applied as an active instrument of commercial policy and for the further purpose of placing a barrier between world and domestic prices, so that monetary and general economic policies could be chosen and executed without regard to their effects on the balance of payments" (League of Nations, 1938, p. 22)

Though the initial reason for this kind of industrial policy was to limit expensive imports (thus the BNB argued in favour of importing commodities and materials rather than machines because the former were cheaper; BNB, 2004, p. 91),in time the necessity of protecting the indigenous industry and cutting unemployment moved to the fore³⁷. In other words, exchange control and foreign trade restrictions in general (quotas and tariffs) obtained predominantly domestic functions. Economists often argued that "encouraged industry" (*nasarchena*

³⁵ Some economists criticise increased dependence on imported materials.

³⁶ Ellis (1947) describes the purposes (domestic and external) and instruments of exchange control in detail.

control in detail.

The 1928 National Industrial Promotion Act provided various encouragements and duty waivers before losing effect partly due to exchange control in 1931. A new 1936 Act made customs regulations particularly important for protecting industry (for details see Toshev, 1943).

industria) and overprotection hit consumers and general entrepreneurship since protecting domestic production hampered competition and led to the rise of monopolistic domestic industries³⁸. In Toshev's opinion "the importance of international trade agreements was diminishing after 1932 with respect to domestic industry since another very effective instrument compensated for trade concessions, and namely the BNB exchange rate policy" (Toshev, 1943, p.85).

As a result of exchange control maintained throughout the Thirties, and of intensified trade with Germany, the lev rate appreciated gradually during the thirties reaching 18.5% in 1937 in nominal effective terms compared to the base year 1929 (Ivanov et al., 2007) (figure 2)³⁹. The nominal effective exchange rate (NEER) calculated with exchange rate premia illustrates the path of an alternative devaluation or the market determined path of exchange rate development. Bulgarian exporters however, faced stimulating development of the real effective exchange rate which had started to devalue since 1930 due to the diverging inflation differential of the lower price level in Bulgaria compared to the weighted price level of its main trading partners. Nevertheless, Bulgaria was unable to benefit from this competitive position due to universal foreign trade restrictions. Moreover, the agricultural price drop was so sharp and sudden that the increasing volume of export did not result in an increase of the value of total export. Therefore, the exchange rate premia applied to a limited number of private deals and, estimated at a quarter depreciation of the officially maintained nominal exchange rate on average between 1935 and 1939⁴⁰, had a smaller real effect (5.7 per cent) and a very marginal effect if any on total exports 41 development.

It is often said that increasing discrepancy between industrial and agricultural development translates into price scissors, different income levels, and hence wealth redistribution.

³⁹ Interestingly, arbitration calculations (across the Romanian leu) of Christophoroff generated some 20 per cent appreciation of the Reichsmark against the Bulgarian lev after 1934, i. e. a mark was worth 25 leva while the official exchange rate was 33 leva (Christophoroff, 1939, p. 20).

40 Data available in the Statistical Yearbooks of the Kingdom of Bulgaria.

⁴¹ As a result general and particular exchange restrictions became a focus of conflict between interest groups (industrialists, merchants, farmers). The course of the debate shows that little attention was paid to consumers. Simple evidence of this is the lists of goods subject to import restrictions, among which cobbling leather, sugar, cotton, wool, and others of definite interest to consumers. Charles Kindelberger (see textbook by Lindert and Kindleberger, 1983 [1982]) develops the idea of the redistributing effect of trade and exchange restrictions in detail.

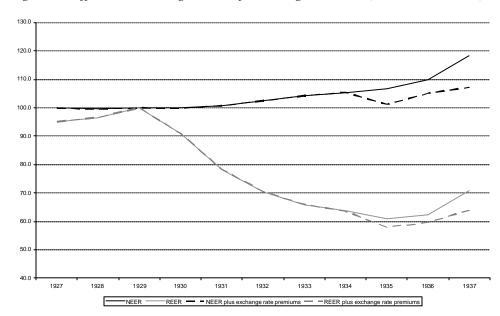


Figure 2: Effective exchange rates of the Bulgarian Lev (index 1929=100)

Source: own estimates. For more details see Ivanov et al., 2007.

4. Theoretical Reflections and Discussion: the Macroeconomics of Exchange Control

Before proceeding with our analysis, it is important to point out that the theoretically postulated relationships we are studying are questionable in themselves due to the complexity of exchange controls. Moreover, empirical estimates are often far from conclusive, not only because of the lack of consistent disaggregated data, but also due to government interference at the micro level (estimates of centrally planned economies are similarly inconclusive). The complexity of exchange controls requires simplification; therefore the reasoning below addresses an 'idealised' exchange control model.

The studies of how exchange control was introduced and practiced in Italy and Bulgaria are eloquent examples of how serious the **balance of payments constraint** was at the time and how difficult it was to circumvent it.

Before the First World War, the balance of payments constraint was overcome by the relatively automatic mechanism of the gold standard and the so-called 'rules of the game.' Even when these rules were violated, the London financial centre and the Bank of England with other major central banks, allowed for the functioning of the Lender of Last Resort (LLR) on an international scale. The war, however, destroyed this institutional framework and led to the formation of different political

and economic blocs and the spread of political and economic nationalism. As pointed out, despite attempts to restore the pre-war situation, during the Twenties many European countries had severe current account and budget deficits and followed diverging political and economic objectives, independently or within a bloc. Under these new circumstances, exchange control can be interpreted as an example of the new economic paradigm which attributed an active role to the government in the economy. We should remind the reader that before the war, governments' and central banks' discretionary powers in relation to the exchange rate were rather limited and used only under set extreme conditions, such as wars.

Exchange control in Bulgaria and Italy, as well as in countries like Germany, Austria, and Hungary, was a specific alternative both to devaluation and to deflation, which for various reasons were much more economically and politically costly. In this context exchange control was a form of isolationism which protected domestic capital markets from international capital flows. Devaluation was unacceptable to countries which had experienced inflation and financial crisis, and which had just stabilised their currencies. What is more, most countries with exchange control (except Italy) had been defeated in the War and had considerable external liabilities. They were debtors who not only wanted to preserve their reputation as good payers but most probably also tried to extract maximum profit from their appreciated currencies. As currencies in which foreign liabilities were denominated (the pound Sterling, dollar, and French or Swiss franc) devalued, they decreased debt burden directly by automatic recalculation of foreign liabilities. Debtor nations wanted to preserve their reputation as good payers (Bulgaria) or among the electorate (Italy).

The balance of payments constraint was of course more binding in Bulgaria than in Italy. In Bulgaria the burden of foreign debt and the constraint of weak foreign reserves⁴³ were more intense⁴⁴. Its government, therefore, had to introduce foreign exchange restrictions considerably earlier⁴⁵ and stabilize the lev administratively: an early form of exchange control.

⁴² In Heuser (1939, ?. 26-27) "Although in general import restrictions are determined by necessity to defend the stabilized national currencies, the reasons slightly differ between debtor and creditor countries. For instance for debtor countries like Bulgaria, Greece, Romania and Estonia the constraint on the balance of payment is dominating, while there are also other reasons as important as the deterioration of the foreign trade balance in creditor countries".

⁴³ According to the Royal Institute of International Affairs, Bulgaria was the country with the greatest lack of capital and investment in Europe (Royal Institute of International Affairs 1936, p. 120).

The choice of exchange control methods depended on other factors such as contracts or political and purely ideological reasons (Heuser, 1939, ?. 48).

45 As pointed out in Heuser (1939, ?. 41).

⁴⁵ As pointed out in Heuser (1939, ?. 41) "... in the case of Bulgaria the chief control of imports has from the beginning been part of the general system of exchange control."

There is no doubt that the basic question is, to what extent exchange control as a form of government interference helps or harms macroeconomic stability and economic growth⁴⁶. Before answering it, however, let us first address some technical details of the exchange control mechanism which could help us explain the main macroeconomic interrelations, and particularly the forms of control over the balance of payments and different types of clearing.

The methods of foreign reserve accumulation and exchange rate pegging could be classified into two types of balance of payments control. The first, trade control, involves indirect influence on the forex market through the basic markets determining foreign currency supply and demand, i. e. import and export markets for goods, services, and capital. The second, exchange control, involves direct control of the foreign exchange market by determining the volume of traded foreign currencies⁴⁷. In the first type, the volume of foreign currencies depends on import and export flows which are limited or enforced. In the second type we have the opposite: there is an *a priori* determined amount of foreign currency, once what is necessary for debt servicing has been earmarked, and imports are constrained by this amount. The government further interferes directly on import and export markets to accomplish its goal of foreign reserve accumulation. Despite the fact that both mechanisms give similar long term results (both interfere with the efficient allocation of resources), we have to consider that direct control of the foreign exchange market is considerably more complex to enforce and has remarkably adverse overall effects⁴⁸.

Under trade control, *de facto* import control, two types of restrictions can be identified: price discrimination (tariffs and customs duties) and volume discrimination (quotas and barter). The former type fixes import prices above their equilibrium level by adding customs duties and tariffs and the volume becomes a function of this fixed price level. The latter fixes the volume (usually at a level lower than equilibrium) and the price follows accordingly. The historical record proves that exchange control of the first type has not always accomplished its foreign exchange market aims because of the decentralized behaviour of importers and exporters.

⁴⁶ Ellis (1940) provides an interesting exposition of the exchange control theory and its macroeconomic consequences.

⁴⁷ Technically, exchange control is a logical continuation of import tariffs and quotas which have failed to fulfil their purpose of improving the balance of trade (Kulicher, 2002, [1929] and Kindleberger, 1988, [1973]). Diminishing foreign reserves threaten stabilised national currencies and regular foreign debt service. Consequently, trade difficulties lead to the evolution of exchange controls from unilateral to bilateral clearing and on to private exchange barter and exchange premium (in the case of Bulgaria in 1935) in order to direct trade towards free currency countries.

⁴⁸ See international trade textbooks (for example Vanek, 1962; Lindert and Kindleberger, 1983, [1982]).

Under exchange control the central bank can fix the supply of foreign currency directly. Thereafter, if the goal is to boost the foreign exchange supply, exchange premiums are an appropriate instrument. A violation of the static foreign exchange monopoly, they allow for some very limited flexibility of the legally fixed exchange rate with the sole purpose of stimulating export. In principle, once the volume of foreign exchange and the exchange rate are given, the next logical step is to control imports and exports totally through leaves and licenses; hence goods markets become a function of a predetermined foreign exchange market equilibrium. There is little doubt that this form of exchange control is considerably stronger and entails a more substantial violation of the market mechanisms for the efficient distribution of scarce resources. It is also more difficult to maintain, as evidenced by the black market in currency, smuggling, corruption, and other forms of lawbreaking exemplified by the case of the two Italians in Bulgaria.

The other technical detail concerns clearing. We shall take the example of interwar Bulgaria and try to narrow things down to the role of clearing with Germany in the development of the Bulgarian economy after 1932⁴⁹. There are different opinions about the German impact on Southern Europe, from unqualified support of clearing to the opposite extreme of its total denigration alongside accusations of German exploitation.

Here we would like to remind the reader about the scheme of clearing (chart 2) which we discussed in section 2 (the immediate payment or financing principle, and the delayed payment principle). G stands for the German central bank, B is the BNB, X_B is Bulgarian export to Germany, X_G is German export to Bulgaria or Bulgarian import from Germany, and M is the additional monetary flow created by the Bulgarian central bank due to the clearing surplus (in our case 90). In the case of immediate payment (the financing principle) applied in Bulgaria (the same as in Hungary and later in Italy) as a result of the positive clearing surplus $[X_B (100) > X_G (10)]$, domestic money supply automatically expands (the clearing surplus is multiplied by the clearing exchange rate (assumed at unity⁵⁰).

Under this financing principle the central bank bought the receivables from its exporters at the fixed clearing exchange rate. Under the other postponed payments principle (as employed in Romania)⁵¹ the central bank waited for the counterparty to settle the clearing balance, hence the positive surplus was not monetised immediately and there was no monetary expansion at home. In the first case the positive surplus appeared as debt/credit respectively on the books of the German central bank and the BNB. In the second case there was no additional monetary creation and the clearing debt/credit position was not on the books but below the

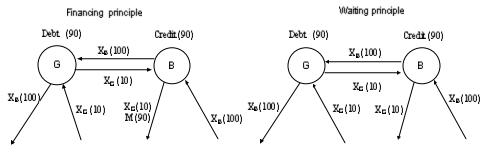
⁴⁹ For details about the interrelations between the dynamics of the Bulgarian and German economies see Christophoroff (1939) and also Fisher (1939, p. 154)

⁵⁰ In the real Bulgarian case the rate was 1RM = 33 leva.

⁵¹ See for instance Neal (1979).

line (off-balance sheet). In this waiting principle the clearing surplus (90) had a depreciating effect on the mark (as mentioned by Larry Neal)⁵².

Chart 1: Two methods of clearing



Debit and die dittare at the Cenital bank balance she et

Debitand credit are under the line of the Central bank balance sheet.

First, we note that clearing substantially impacted money supply and price levels. As noted above, due to the specific method of clearing with Germany (in contrast with, say, Romania)⁵³, Bulgaria maintained a flat clearing rate of 33 leva to the mark. The positive clearing balance Bulgaria accumulated led to the expansion of money supply and inevitably to price and income increases, and consequently to economic expansion. This scenario has positive features given the fact that deflation in the Thirties had severely damaged agriculture⁵⁴. This expansion through the immediate payment method can be accommodated within the overall German 'contagion' of the Bulgarian economic cycle as described by Christophoroff (1939).

As the National Socialists came to power in Germany in 1933, the economy was experiencing credit growth and expansion of government spending. This logically followed the 1932 clearing agreement between Bulgaria and Germany and the consequent BNB departure from a strict deflationary policy and the

⁵² In this case we could assume the clearing rate to move from 1 to around 0.1, *ceteris paribus*.
 ⁵³ Romania tried several times to renegotiate its clearing rate with Germany.

⁵⁴ Interestingly, in the financing principle adjustments are realised by price levels, whereas in the delay principle by the fluctuating sperrmark rate. Thus in Bulgaria domestic price rises, due to monetary expansion, cut Bulgarian competitiveness in Germany, *i. e.* they reduced mark appreciation. In Romania there were no price rises but the sperrmark depreciated on the Romanian market. When the waiting period ended the sperrmark rose approaching its previous level. We could also assume that the financing principle affected Bulgarian competitiveness not only in Germany but also elsewhere, prompting exchange premia to stimulate trade with free currency countries. Neal (1979, p. 400) saw financing principle countries as being politically closer to Germany.

introduction of exchange premia in mid-1933.

The actual development of the Bulgarian cycle (see Christophoroff, 1939) confirms the above logic of exchange control development. In a comparative perspective, Larry Neal (1979)⁵⁵ argues that the different methods of payment explain higher Hungarian growth in contrast with the difficulties faced by Romania. Paul Einzig (1955) describes the different mechanisms by which Germany first exported inflation to South-Eastern Europe and then pursued deflation at home. Germany accumulated positive clearing balances and used the financing principle nations (Bulgaria and Hungary) to finance German economy by inflation or devaluation. Therefore it was against the German interest to introduce the mark into South-Eastern Europe as this would deny it the inflation/devaluation levers. (Interesting parallels could be drawn with the present refusal of older eurozone countries to put the euro into circulation in new accession states.)

Second, we note that exchange control in clearing influenced the real exchange rate and overall national terms of trade. Despite the many difficulties in calculating terms of trade in the framework of clearing and exchange control (see Neal, 1979, Friedman, 1976, and Tattara, 1991), there is consensus among researchers that German terms of trade developed unfavourably for Southern Europe (*i. e.*, the ratio of export prices to import prices fell). This is supported by the overvaluation of the Reichsmark in clearing exchange rates⁵⁶. Under these circumstances immediate payment and hence money expansion in clearing creditor countries (*e. g.* Bulgaria) postponed real Reichsmark appreciation against the lev and boosted lev appreciation against the Reichsmark. In a sense, this was a compensating mechanism in the context of trade flows between Bulgaria and Germany given the fact that both sides opposed devaluation⁵⁷.

As a whole we dare argue that exchange control and clearing in particular

_

⁵⁵ Friedman (1976) tries to measure the welfare benefits and the losses for Hungary clearing with Germany, comparing the term of trade in the clearing area and outside the clearing area and comparing the deferent export elasticity for the two areas.

⁵⁶ The problem of the overvalued Reichsmark was solved by private clearing agreements within Germany through the flexible exchange rate of the ?SKI marks and through the mechanism of sperrmarks (see Neal, 1979).

⁵⁷ It is interesting to note that the main principles of proposed clearing system as a general form of building the international financial relations is later on again put forward by Keynes (even if not explicitly stressed by him) as a part of his plan for reforming the international financial system after WWII (Dam, 1982, Triffin, 1969, [1968]). In his plan Keynes explicitly shares his conviction that a balancing mechanism is feasible in the frameworks of a global clearing, and his wish for this mechanism to be relatively symmetric (in contrast to the Gold standard). This means part of the burden is spread among the creditors. In a sense, Keynes's proposal confirms that the exchange control is a weapon used by debtors, regardless of whether they are producers, consumers or entire countries.

stimulated the Bulgarian economy under the circumstances of global deflation and international trade restrictions. Importantly, exchange control was also significant for national industrial development which falls outside the scope of the present paper.

Third, we note that the Italian and Bulgarian balance of payments restrictions could be interpreted in the light of the well known saving/investment equilibrium in an open economy. If we assume that private saving is constant, an increase in the budget deficit and/or private investment has to worsen the balance of trade. Naturally, the aggregate approach presents some methodological and analytical problems. However, it is correct to point out that both countries' trade deficits were caused not only by the price drop of agricultural products in the early Thirties (more for Bulgaria than Italy) but also by the considerable increase of public expenditures later in the decade in preparation for war (more for Italy than for Bulgaria). Mussolini's ambitious imperialism has been studied at length (cf. among others De Felice, 1981; Miller and Kagan, 1997); Bulgaria also had its Balkan ambitions as a prospective German ally. Increasing public expenditures since 1934, however, were counterbalanced by great efforts to attain surpluses from 1936 (Christophoroff, 1939, pp. 100-105). This line of reasoning shows Italian and Bulgarian exchange control as an instrument of government interference, nationalisation, militarisation, and economic isolation.

Fourth, we note interesting parallels between the Thirties and today's Italian and Bulgarian economies and that of the European Union.

The First World War caused a sudden collapse of the world economy. Money supply, relative prices, and the structure of the balance of payments irreversibly changed. New social and political subjects appeared whose interests were related to those of the debtors and those who opposed deflation. Money became fiduciary, while capital movements dominated the balance of payments. Failure to revive the pre-war situation and the Great Depression accelerated national isolation and war preparations. This line of reasoning shows exchange control as an organic element of the closed economy. At the beginning it was viewed as an alternative to devaluation and deflation and a way of overcoming the balance of payments constraint; in time it became an instrument for mobilising war resources. In this aspect Italy and Bulgaria followed similar trajectories: both were forced to opt for isolation and exchange control as an alternative to devaluation and deflation.

Today Italy and Bulgaria are members of the EU which, at least in principle, is a framework for avoiding economic isolation and war in Europe. In a sense, the balance of payments constraint, which was felt at the national level, is now partly transferred to the European scale. By adopting the common currency Italy can no longer improve its competitiveness through devaluation, while the currency board in Bulgaria (which is not a eurozone member yet) commits it to low inflation and a restrictive fiscal policy. Today as in the interwar period, European economies can prosper in the long run only by adopting healthy fiscal and monetary policies and

increasing productivity. Yet, unlikely as economic isolation and autarchy may appear, we should remember that these pathologies were unlikely at the beginning of the Twentieth Century too.⁵⁸

5. Conclusions

We can thus summarise the main results of our study: first, interwar exchange control resulted from balance of payments constraints which were particularly severe for peripheral and semi-peripheral countries given the collapse of the world economic and monetary equilibrium. During the Thirties the relatively automatic mechanism of the gold standard and the LLR functions performed by the Bank of England and central banks in the financial core no longer existed, while ideas of a global LLR like today's IMF were nascent. The League of Nations lacked the authority to restore pre-war financial relations and implement a new system.

Second, peripheral and semi peripheral countries like Bulgaria and Italy, which had a long record of poor discipline and lacked good monetary management traditions, preferred fixed exchange rates which symbolized monetary stability and enhanced credibility. For this they needed foreign reserves which, however, rapidly decreased through balance of payments deficits. The latter were caused mainly by dramatic drops in farming prices, capital outflows, and later by costly rearmament (in particular in Italy). Moreover, most countries opting for exchange control (Italy was an exception) had been defeated in the war and laboured under a heavy debt burden.

Third, the exchange control bloc included countries with similar problems, similar preferences and characteristics. Together with the Sterling bloc (which included Great Britain and its colonial system) and the Gold bloc (with France in the lead), the exchange control bloc, with Germany at the centre, had its own basic equalizing mechanism. From a technical point of view the exchange control can be seen as an alternative strategy to devaluation (pursued by the Sterling bloc) and to deflation and wage decreases (pursued by the Gold bloc). At a more disaggregate level, when we study the techniques of the exchange control, we find several details (like exchange premiums for example) which are *de facto* in conflict with the fixed exchange rate principles.

Fourth, our study of exchange control reveals interesting macro interrelations. While there is some obvious macroeconomic asymmetry within exchange control countries (in fact there was a similar asymmetry during the pre-war classical gold standard), we observe certain equilibrating processes in relation to the main macroeconomic parameters and in foreign trade. Of course, such processes could only be regarded as secondary. There is no doubt that exchange control was a

⁵⁸ See Fromkin (2004), Frieden (2006)

serious interference in market mechanisms. Furthermore, history shows that exchange control was characterized by corruption and political favouritism and had strong distorting redistribution effects: it tended to favour certain groups which were connected to the authorities in one way or another. These microeconomics and sociological aspects, however, constitute a new and different chapter in this complex story.

References

- Aldcroft, D. (2002), "Currency Stabilisation in the 1920s: Success or Failure?" *Economic Issues*, vol. 7, 2, pp. 83-102.
- Assonime (1940), *Il controllo dei cambi nei vari paesi*, Quaderni dell'Associazione fra le Società Italiane per Azioni, IX, Tip. Castaldi, Roma.
- Assonime (1942), *Accordi di compensazione*, Quaderni dell'Associazione fra le Società Italiane per Azioni, XII, Tip. Castaldi, Roma.
- Avramov, R. (2001), *Bulgaria's Economic 20th Century*, Centre for Liberal Strategies, Sofia (in Bulgarian).
- Baffi, P. (1958), "Monetary Developments of Italy from the War Economy to Limited Convertibility (1935-1958)", *Banca Nazionale del Lavoro Quarterly Review*, vol. XI, 1958, Dec., pp. 399-483.
- Banca d'Italia (1938), *L' economia italiana nel sessennio 1931-1936*, Ist. Poligrafico dello Stato, Roma.
- Barucci, P. (1981), "Il contributo degli economisti italiani (1921-1936)", in *Banca e industria fra le due guerre. L'economia e il pensiero economico*, Il Mulino, Bologna, pp. 179-243.
- Benham, F. (1939), *South-Eastern Europe: a Political and Economic Survey*, Royal Institute of International Affairs, London.
- Berahov, R (1927), *Industrial protectionism at home*, Cooperative Printing House Napredak, Sofia (in Bulgarian).
- Berov, L.(1989), *Bulgarian economy until the Socialist Revolution*, Vol I, Nauka I Izkustvo Publishing House, Sofia (in Bulgarian).
- Berov, L. (1997), "The Bulgarian National Bank at 120", mimeo (in Bulgarian).
- Bini, P. (1981), "Il dibattito attraverso le riviste di regime", in *Banca e industria* fra le due guerre. L'economia e il pensiero economico, Il Mulino, Bologna, pp. 246-98.
- BNB (1999), 120 Years Bulgarian National Bank, Avramov, R (ed.), Sofia.
- BNB (2001), *The Bulgarian National Bank: a Collection of Documents*, The Central Public Record Office., Vol. 3, 1915-1929 (in Bulgarian).
- BNB (2004), *The Bulgarian National Bank: a Collection of Documents*, The Central Public Record Office, Vol. 4, 1930-1947 (in Bulgarian).

- Bonnet, M (1933), *The Economic Reconstruction of Central and South-Eastern Europe*, Royal Institute of International Affairs, 1931-1933, Vol. 12, No. 1, pp. 19-36.
- Boshnyakov, D. (1936), *Prices and the Monetary Problem*, Razvitie Printing House, Sofia (in Bulgarian).
- Boshulkov, K. (1927), *The Monetary Crisis*. (The Theory of Irving Fisher), Sofia, (in Bulgarian).
- Burilkov, Zh. T. (1928), *The Monetary Reform*, S.M. Staikov Printing House, Sofia (in Bulgarian).
- Chapkunov, A. (1936), *Crises and Foreign Currency*, Hudozhnik Printing House, Sofia (in Bulgarian).
- Christophoroff, A. (1939), *The course of the trade cycle in Bulgaria 1934-1939*, Publications of the Statistical Institute for Economic Research, State University of Sofia, No 1-2 (in Bulgarian).
- Chirstophoroff, A (1946), *Central Banks and Contemporary Economic Theories*. Yearbook of the State Higher School of Financial and Administrative Sciences, Sofia, Vol. V, 1945/1946 (in Bulgarian).
- Ciocca, P.–A. Ulizzi (1990), "Tassi di cambio nominali e reali dell'Italia dall'Unità nazionale al Sistema monetario europeo (1861-1979)", in *Ricerche per la storia della Banca d'Italia*, Laterza, Bari, vol. I, pp. 341-68.
- Cohen, J. (1972), "The 1927 Revaluation of Lira: A Study in Political Economy", *The Economic History Review*, vol. 25, 4, Nov., pp. 642-54.
- Cotula, F.–L. Spaventa (2003), "La politica monetaria tra le due guerre. 1919-1935", in F. Cotula–M. de Cecco–G. Toniolo, *La Banca d'Italia. Sintesi della ricerca storica*, 1893-1960, Laterza, Bari, pp. 209-310.
- Dam, K. (1982), *The Rules of the Game. Reform and Evolution in the International Monetary System*, The University of Chicago Press, Chicago.
- De Cecco, M. (2003), "L'Italia e il sistema finanziario internazionale. 1860-1936", in F. Cotula—M. de Cecco—G. Toniolo, *La Banca d'Italia. Sintesi della ricerca storica*, 1893-1960, Laterza, Bari, pp. 3-58.
- De Felice, R. (1981), *Mussolini il duce*. vol. II. *Lo stato totalitario* (1936-1940), Einaudi, Torino.
- Demaria, G. (1939), Cambi manovrati e clearing complementari nella nuova politica autarchica, Editoriale del Commercio, Roma.
- Demostenov, S. (1937), *The History of the Monetary Theory*, Pridvorna Printing House, Sofia (in Bulgarian).
- Demostenov, S. (1946), *Money, The Essence and Importance of Money*, Shtastie Litography, Sofia (in Bulgarian).
- Demostenov, S. (1991 [1946]), *Theoretical Political Economy*, 7M Publishing House and University Publishing House, Sofia (in Bulgarian).
- Eichengreen, B. (1997 [1996]), L'expansion du capital. Une histoire du système monétaire international, L' Harmattan, Paris.

- Eichengreen, B. –J. Sachs (1985), "Exchange rates and economic recovery in the 1930s", *The Journal of Economic History*, vol. 45, 4, pp. 925-946.
- Einzig, P. (1934), Exchange control, Macmillan, London.
- Einzig, P. (1955), The Exchange Clearing System, Macmillan, London.
- Ellis, H. (1940), "The Past and Future of Exchange Control", *The Quarterly Journal of Economics*, vol. 54, 4, pp. 159-217.
- Ellis, H. (1942), "The Problem of Exchange Systems in Post-war World", *The American Economic Review*, vol. 32, 1, part 2, pp.195-205.
- Ellis, H. (1947), "Exchange Control and Discrimination", The *American Economic Review*, vol. 37, 5, pp. 877-888.
- Falco, G.C. (1995), "La bilancia dei pagamenti italiana tra la prima guerra mondiale e il 1931", *Ricerche per la storia della Banca d'Italia*, Laterza, Bari, pp. 3-264.
- Falco, G.-M. Storaci (1977), "Il ritorno all'oro in Belgio, Francia e Italia", *Italia Contemporanea*, Jan-Mar.
- Fisher, A. (1939), *The German Trade Drive in South-Eastern Europe*, Royal Institute of International Affairs, vol. 18, 2, pp. 143-170.
- Focarile, A. (1929), Bulgaria d'oggi. Nei suoi aspetti sociali, economici, commerciali e finanziari (con una carta delle ferrovie bulgare), Hoepli, Milano.
- Fratianni, M.–F. Spinelli (1997), *A Monetary History of Italy*, Cambridge University Press, Cambridge.
- Frieden, J. (2006), *Global Capitalism. Its Fall and Rise in the Twentieth Century*, Norton & C., New York, London.
- Friedman, P. (1976), "The Welfare Costs of Bilateralism: German-Hungarian Trade, 1933-1938", *Explorations in Economic History*, vol. 13, 1, pp. 113-125.
- Friedman, P. (1978), "An Econometric Model of National Income, Commercial Policy and the Level of International Trade: The Open Economies of Europe, 1924-1938", *The Journal of Economic History*, vol. 38, 1, pp. 148-180.
- Fromkin, D. (2004), Le dernier été de l'Europe. Qui a provoqué la Première Guerre mondiale?, Hachette, Paris.
- Goodhart, Ch. (1998), "The Two Concepts of Money: Implications for the Analysis of Optimal Currency Areas", *European Journal of Political Economy*, vol. 14, pp. 407-432.
- Guarneri, F. (1988), Battaglie economiche tra le due guerre, Il Mulino, Bologna.
- Heilperin, M. (1939), *International Monetary Economics*, Longman, Green and Co, London.
- Heuser, H. (1939), Control of International Trade, Routledge, London.
- Hirschman, A. (1988 [1939]), "Memoire sur le contrôle des changes en Italie". Rpt. in *Potenza nazionale e commercio estero. Gli anni trenta, l'Italia e la recostruzione*, ed. by P.F. Asso and M. de Cecco, Il Mulino, Bologna.

- Hunke, H. (1942), *The foundations of the international economic relations in Europe*, Publication of the German-Bulgarian Chamber of Commerce, Sofia (in Bulgarian)
- Ivanov, M (2001), Political Games with the External Debt. Bulgarian Scenarios of Economic Crisis and Upsurge, 1929-1934, Zlatyo Boyadzhiev Publishing House, Sofia (in Bulgarian).
- Ivanov, M. (2004) "Could we devalue? What is there behind the orthodox Bulgarian answer to the Great Depression?", *Historical Review*, 3/4 (in Bulgarian).
- Ivanov, M.–K. Dimitrova–R. Simeonova-Ganeva (2007), "Effective exchange rates of the Bulgarian lev 1896-1939", BNB Discussion paper (forthcoming).
- Kemilev, A (1936), "Money circulation in Bulgaria", *Journal of High School of Commerce Graduates-Varna*, vol. I, 4, pp. 287-300 (in Bulgarian)
- Kindleberger, Ch. (1988, [1973]), La grande crise mondiale 1929-1939, Economica, Paris.
- Kindleberger, C. (1990, [1984]), *Histoire financière de l'Europe occidentale*, Economica, Paris.
- Koszul, J. (1932), Les efforts de restauration financière de la Bulgarie (1922-1931), Felix Alcan, Paris.
- Kulicher, I. (2002, [1929]), *The main questions of the international trade policy*, Socium, Moscow, (in Russian).
- Lazaretou, S. (2005), "The Drachma, Foreign Creditors and the International Monetary System: Tales of a Currency in the 19th and the Early 20th Centuries", *Explorations in Economic History*, vol. 42, pp. 202-236.
- League of Nations (1938), A Report on Exchange Control Submitted by a Committee composed of Members of the Economic and the Financial Committees, Official No. C.232.M.131, Geneva.
- Leonidoff, A. (1966), Impact of the external financial debt of Bourgeois' Bulgaria on its balance of payment and currency during the first phase of the general capitalist crisis (1918-1938), vol. II, High Economic Institute "Karl Marx", Sofia (in Bulgarian).
- Leonidoff, A. (1969) "Foreign creditors and Bulgaria after the First World War", *Historical Review*, vol. XXV, 4, pp.15-37 (in Bularian).
- Lindert, P. C. Kindleberger (1983, [1982]), *Economie internationale*, 7e édition, Economica, Paris.
- Machlup, F. (1939), "The Theory of Foreign Exchanges", *Economica*, n.s., vol. 6, 24, pp. 375-397.
- Madgearu, V. (1939), *Le Contrôle des Changes en Roumanie*, International Institute of Intellectual Cooperation, Paris.
- Marconi, M. (1982), La politica monetaria del fascismo, Il Mulino, Bologna.
- Michaely, M. (1962), "Multilateral Balancing in International Trade," *American Economic Review*, vol. 52, 4, pp. 685-702.

- Miller, B. K. Kagan (1997), "The Great Powers and Regional Conflicts: Eastern Europe and the Balkans from the Post-Napoleonic Era to the Post-Cold War Era", *International Studies Quarterly*, vol. 41, pp. 51-85.
- Monchev, B (1939), *The Monetary Problem after the World War*, Sofia (in Bulgarian).
- Neal, L. (1979), "The Economic and Finance of Bilateral Clearing Agreements: Germany 1934-8", *The Economic History Review*, vol. 32, 3, pp. 391-404.
- Nurkse, R. (1944), L'expérience monétaire internationale. Enseignements de la période d'entre les deux guerres, Société des Nations, Genève.
- Nedelchev, K. (1940), *Monetary Issues: Bulgaria 1879-1940*, Knipegraph Printing House, Sofia (in Bulgarian).
- Nenovsky, N. (2006) Exchange rates and inflation: France and Bulgaria in the Interwar Period and the Contribution of Albert Afflation (1874-1956), Bulgarian National Bank, Sofia.
- Nikolov, G. (1927), Stabilization: Monetary and Economic (Thoughts on the Monetary and Economic Crisis), Elisei Petkov Printing House, Sofia (in Bulgarian).
- Pavanelli, G. (1990), "Gli economisti e la politica economica: le svalutazioni degli anni '30 nel dibattito italiano", *Quaderni di Storia dell'Economia Politica*, VIII, 2-3, pp. 321-58.
- Pavanelli, G. (1991), "Il controllo dei cambi negli anni Trenta: il punto di vista degli economisti italiani", *Storia del Pensiero Economico*, 22, pp. 37-62.
- Petkov, J. (1926), *Prix, circulation et change en Bulgarie de 1890 a 1924*, Jouve & Cie Editeurs, Paris.
- Radoslavov, V. (1993 [1923]), *Bulgaria and the World Crisis*, Publishing House of the Bulgarian Academy of Sciences, Sofia (in Bulgarian).
- Raitano, G. (1995), "I provvedimenti sui cambi in Italia nel periodo 1919-36", in *Ricerche per la storia della Banca d'Italia*, vol. VI, Laterza, Bari, pp. 265-335.
- Raupach, H (1969), "The Impact of the Great Depression on Eastern Europe", *The Journal of Contemporary History*, vol. 4, 4, pp. 75-86.
- Renzi, A. (1943), *Tecnica degli scambi con l'estero*, 5° ed., Hoepli, Milano.
- Robbins, L. (1935), The Great Depression, Macmillan, London.
- The Royal Institute of International Affairs (1933), Monetary Policy and the Depression: a first Report on International Monetary Problems by a Group of the Royal Institute of International Affairs, Oxford University Press, London.
- The Royal Institute of International Affairs (1936), *The Balkan States: a Review of the Economic and Financial Development of Albania, Bulgaria, Greece, Romania and Yugoslavia since 1919*, Oxford University Press, London.
- Rueff, J. (1966), Le lancinant problème des balances de paiements, Payot, Paris.
- Sarailiev, G. (1937), *Monetary devaluations and their effect at home and abroad*, Sofia (in Bulgarian).

- Scipcovensky, M., (1927), Bulgaria: Riesumazioni storiche e considerazioni politiche ed economico-finanziarie dal 679 al 1927, Tip. Poliglotta, Milano.
- Spissarevsky, K. D. (1930), *La Bulgarie au Travail: Cinquante ans après*, 2° ed., Société anonyme du Sémaphore de Marseille, Marseille.
- Svrakoff, G. (1941 [1936]), *Theory of Trade Policy (Foreign Trade)*, Sofia (in Bulgarian).
- Storaci, M. (1989), "Il gold exchange standard in Italia", *Rivista di Storia Economica*, n.s., vol. 6, 3, pp. 283-319.
- Stoyanov, N. (1933), Reparations and Inter-Allied Debts. Bulgaria Government Debts, Sofia (in Bulgarian).
- Tattara, G. (1991), "Power and Trade: Italy and Germany in the Thirties", *Vierteljahrschrift fur Sozial und Wirtschaftsgeschichte* (VSWG), 79, 3, pp. 457-500.
- Tolomeo, R. (ed.) (2002) *Tra speranze e delusioni: la Bulgaria a Versailles*, Lithas editrice, Roma.
- Toniolo, G. (1980), L'economia dell'Italia fascista, Il Mulino, Bologna.
- Toshev, D. (1941-2), "Bulgarian Industrial Policy after WWI", *Journal of High School of Commerce Graduates-Varna*, vol. 15, pp. 1-213 (in Bulgarian).
- Toshev, G. (1928), Foreign Currency and Foreign Currency Policy: A Scientific Inquiry into the Reasons of the Economic Crisis, Franklin Cooperation Printing House, Sofia (in Bulgarian).
- Totev, T. (1932), *The Money. Coins Banknotes Paper Money*, Zdruzhenie Trud Printing House, Sofia (in Bulgarian).
- Triffin, R. (1969, [1968]), *Le système monétaire international*, Firmin-Didot Etude et Éditions CLÉ, Paris.
- Vanek, J. (1962), *International Trade. Theory and Economic Policy*, Irwin, Homewood, Illinois.
- Vachkov, D. M. Ivanov Ts. Todorova (2007), *The History of Bulgaria's External Government Debt, 1878-2005*, BNB Publication (forthcoming, in Bulgarian).
- Yeager, L.R. (1966), *International Monetary Relations: Theory, History and Policy*, Harper & Row, New York.
- Yurii (1923), Monetary Crisis Liquidation (the Appreciation of Our Lev), Pridvorna Publishing House, Sofia (in Bulgarian).
- Zamagni, V. (1993), *The Economic History of Italy, 1860-1960*, Clarendon, Oxford.
- Zarin, P. C. (1947), *Measures Against Monetary Inflation*, Hudozhnik Printing House, Sofia (in Bulgarian).