THE CONCEPTUAL BACKGROUND OF SOCIAL PRODUCT

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11
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The purpose of this paper is to attempt a critical analysis of the definitions of social product currently in use. For this purpose I propose to classify all existing definitions of social product into three broad categories represented by three typical definitions.

Let us call them the Russian definition, the American definition, and the Kuznets' definition. In what follows these definitions will be examined from the viewpoint of how well the statistical aggregates they produce can be used as welfare indicators.

I. THE RUSSIAN DEFINITION OF SOCIAL PRODUCT

The Russian definition is taken from the last edition of *PolitčeskaJa ekonomija*, a representative textbook written by a team of competent Soviet economists, and it reads as follows:

"In Socialism, as in any other system, total social product is created by the labour of workers in branches of material production. Along with manual workers, brain workers (scientists, engineers, etc.), engaged in branches of material production, participate directly in the creation of material wealth.

'Total social product is not created in non-productive branches. Workers engaged in the non-productive sphere (state administration, culture, welfare, medical service), do not create material wealth. Nevertheless, the labour of workers of non-productive branches is indispensable for socialist society, for material production, it represents socially useful labour."

The definitions are chosen for convenience and do not have historical implications. The 'Russian Definition' (more strictly, the 'Soviet Definition') had already been used before the U.S.S.R. came into existence, e.g. by von Fellner in Austria, and in a certain sense, already by Adam Smith. The 'American Definition' can be traced back to the work of Meade and Stone (J. E. Meade and R. Stone, 'The Construction of Tables of National Income, Expenditure, Savings, and Investment', *Economic Journal*, 1941, 216-233).

This definition is commonly called the Marxist definition, but that is not correct. See infra.

A similar definition of social product was used by the Yugoslav Federal Statistical Office. After the Statistical Office had published its 'Methodology' in 1954, an extensive discussion of the definition took place. For some of the more important contributions written from different points of view, see the following references:

Total product of Buki also consists of 100 tons of food, the population is the same, but due to some innovation labour productivity (in the technical sense) is greater in Buki than in Az. Therefore Buki society can afford to spare two men, and these two men specialize in teaching and in medicine. How are we to compare Az and Buki in terms of economic welfare?

The Russian definition is usually derived from the Marxian concept of productive labour in terms of value productivity. Value is determined by the labour time expended. In Buki fewer workers are engaged in the production of food; the value of product in Buki must be less. From the social accounting point of view the result is meaningless. The Marxian concept implies a social relation, the use of the labour power bought on the market, and has nothing to do with the physical quantity of the product. The social accounting concept, on the contrary, has meaning only in so far as it measures exactly this physical quantity of the product, because what is consumed is product and not value. It follows that the two concepts must not be confused and that the Russian definition cannot be derived from the Marxian theory of value.

The Russian definition would indicate that the product of Buki is the same as of Az. But the population of Buki is obviously better off than the population of Az (granting that income distribution is no worse), because in addition to 100 tons of food they are able to enjoy medical and school services. Moreover, in otherwise identical conditions, but equipped with a teacher and a doctor, Buki economy is likely to grow at a faster rate, thus providing the population with more food also. The differential advantage of Buki may be expressed as: 100 tons of food valued 100 dinars plus services of one doctor and one teacher. Once we have decided to aggregate wheat and potatoes in value terms, there is no reason to leave out the services of the teacher and doctor.

Thus the Russian definition does not pass our test. It appears to be arbitrary. As such it is likely to be misleading, as the following statement by a group of Soviet authors shows:

'Systematic increase of the share of labour engaged in the sphere of material production ... promotes the growth of social wealth, the creation of the abundance of products needed for the building of communist society.'

As it stands, the statement is definitely wrong. The transition from Az to Buki involved a decrease of the proportion of labour engaged in the sphere of material production, and yet it was a positive move both in terms of present welfare and in terms of the future rate of growth.

As we have just seen, according to the Russian definition, social product represents the value of material goods produced in a specified period; services are declared unproductive, and as such are excluded. It is commonly held, by both Marxist and non-Marxist economists, that this is a Marxist definition of social product. This belief is wrong.

Marx was not concerned with the theory of productive labour in general. Nowhere does he attempt to formulate such an eternally valid theory. He was interested in the problem of productive labour only in connection with the epoch he was studying and for which he tried to formulate a comprehensive political economy. It was the epoch of capitalist production. His starting-point was that of a typical capitalist-entrepreneur. A capitalist is interested in the profitability of his business, he tries to maximize the difference between price and cost. If this is the typical behaviour of the typical productive agent in the capitalist system, this must be taken as a criterion for the productivity of labour in this system. Labour is productive when it produces surplus value.

What from the point of view of society is income is gross income from the point of view of the capitalist. What the latter considers as net income corresponds to income minus wages. However, even the income of the society, gross income 'is an abstraction to the extent that the entire society, on the basis of capitalist production, places itself upon the capitalist standpoint and considers only the income divided into profit and rent as the net income'.

II. THE AMERICAN DEFINITION OF SOCIAL PRODUCT

We now pass to consider the American definition as formulated by the authors of the official American post-war computations of social product:

We start with the obvious fact that individuals, non-profit institutions serving individuals, and general government are ultimate buyers in the sense that they do not buy for resale in the market. Accordingly, their purchases are not elements of cost in the value of other output produced for the market. Hence there is a presumption that their purchases should be regarded as final products in any measure which purports to give a complete accounting of the entire output of the nation.

It is evident that this definition passes the Buki test, so we move on to a more complex Vede economy.

Suppose Vede is in every respect equal to Buki, except that the two non-industrial workers are now one politician and one policeman. If everything else remains the same it is clear that the Vede community is no better off than the Az community, while according to the American Definition they would be better off. Moreover, the politician and policeman are not likely to remain idle, and to justify their existence they may persuade members of the Vede community to divert some resources from the production of food to the production of guns. At best, guns will be used as a demonstration of force, as a means to instil the necessary respect for the State inside and outside the community. In this case they represent an addition to social capital. But they may also be used and destroyed in war in the current year—which I assume here for the sake of simplicity—and then they represent current consumption. If the technical substitutability of output is perfect the aggregate value of potatoes, wheat, and guns will again be 100 dinars. According to the Russian definition, social products of Az and Vede economies are the same. According to the American definition, Vede social product is even greater than that of Az. Actually, the Vede community is worse off because the production of armaments is a social waste.


See also the following contributions to this discussion:

or cost, it contributes neither to the present consumption nor to the future consumption of the members of the community.

Suppose, further, that food growers had a number of private agricultural institutes maintained from the proceeds of the sales of the produce. The politician and policeman may persuade producers to abandon small and inefficient institutes and to form a large and well-equipped central agricultural institute financed out of direct or indirect taxes. According to the American definition, this automatically increases social product by the amount of taxation (in addition to the real increment of product due to greater efficiency after the change and assuming that there are no material costs). The same fictitious changes in product, but in the opposite direction, will occur if the policeman and politician are hired by private firms to perform the jobs of night-watchmen and legal advisers. Then their services represent cost to the firms, while as members of government they are supposed to create product for the nation. Our pair of government functionaries may become even so constructive-minded as to retire from the ‘public life’ into the privacy of their own estates and engage in a leisurely food growing. Taxes being abolished, the American definition may record a drop in output while there is a clear increase in economic welfare. Finally, fictitious changes in social product result from one characteristic of the American definition which is of a somewhat different nature, and may be cured, at least in principle. Private and government products are treated differently: the latter, on the grounds of expediency, does not include depreciation and interest on capital. Thus, changes in the sphere of government activity will automatically change the value of social product.

It appears that mere organizational changes, although leaving the total amount of goods and services supplied to the members of the community unchanged, may lead to changes in social product if the American definition is used. These distortions may not be great from the statistical point of view, but they render the American definition inconsistent. Also, according to both definitions, war production is likely to increase social product instead of being treated as a social waste. On the other hand, the American definition has clearly some very useful properties. It reflects the social division of labour. Since it records all institutional incomes, it is well suited for many purposes of practical analysis. It is also capable of an interesting reinterpretation.
Assuming full employment and a relatively stable economic organization, the American concept may be interpreted as a measure of the maximum potential output in a certain period. In this case war output indicates the approximate volume of an alternatively possible economic output. Similarly, earnings of government officials and kindred categories of employees show the approximate value of product they would create if they were engaged in producing final goods and services to the consumer. Here even the assumption of full employment may be dropped and the appropriate income may be imputed to persons who do not exchange their work for money income whether voluntarily or involuntarily unemployed. Similarly, the non-wage income may be imputed to idle productive capacities. In this way — with some other corrections which would require a more extensive discussion — we get a convenient concept for economic analysis which may be termed Potential Social Product. It represents an absolute maximum of what can be produced assuming that costs of communal life are non-existent. The difference between potential and actual product may, with proper adjustments for organizational changes, be used as a measure of the efficiency of social organization.

However, whatever the accounting virtues of the original or enlarged American definition, theoretically it is as arbitrary as the Russian definition.

III. THE KUZNETS DEFINITION OF SOCIAL PRODUCT

The two definitions discussed so far have not passed our test, but the discussion has contributed something to our knowledge of the essential characteristics of the problem. It remains to see whether the third, Kuznets’s definition, may serve as a basis for generalizations. Kuznets says:

'We assume that the final goal of economic activity is provision of goods to consumers, that the final products are those turned out during the year to flow either to consumers or to capital stock (for the ultimate benefit of future consumers), and that everything else, by the nature of the case, is intermediate.'

Here the emphasis is on the concept of intermediate product. It is generally accepted that raw materials and semi-finished goods (unless exported or added to stocks) should be treated as intermediate products. But Kuznets extends the concept to include services of courts, government administration, and other similar categories. For many economists this would seem a debatable procedure.

It is often suggested that all government services should be considered as final product which is consumed collectively. Expenditure on defence or on courts and police is made on behalf of the electors to preserve peace, and to ensure internal security and order. Peace and security are therefore the commodities which result from government activity and are collectively supplied and consumed. This sounds suggestive enough until one starts asking concrete questions. How much peace and security do we buy, for instance? As Reddaway points out, ‘The periods with large armies were usually those in which the feeling of security was at its lowest.’

Also, if two countries are equal in every respect, except that one of them has a much larger army, does the latter country enjoy more peace?

...
Similarly, do great police expenditures indicate that the population enjoys a high degree of personal security and freedom? Clearly, this sort of argument will not take us very far. Further, if you buy a concert ticket you will probably enjoy a commodity called singing; thus you feel better off than if you missed the concert. If you must go to the court, you will not enjoy security, and after you have paid the lawyer you will most definitely feel worse off. This is not to say that lawyers are useless; but it is to say that they are desirable only in so far as they create certain conditions. The questions and examples can be multiplied at will, and they all point at one fact, namely that government services, like business services, are not at all homogeneous. Some of them are in the nature of product, but others are social costs, necessary, it is true, but nevertheless costs. Education and medical services belong to the first category, defence and justice to the second.

The criticism of the traditional argument may be restated more systematically in the following two points:

(1) Social product is not a collection of physical goods as such, neither does it measure human activities as such; it represents an aggregate of consumers’ valuations. In order to treat government expenditures which do not directly benefit individual consumers as collective consumption, one would have to assume that the Government represents the majority of the population, that it is a ‘democratic’ government. The activities of a Fascist government will not represent a contribution to social product, but a robbery of the population. From this it follows that social products of democratic and non-democratic countries would not be comparable. Next, as there is no precise criterion for what is ‘democratic’, it cannot be said with certainty where the concept is applicable and where it is not. And finally, since government and state bureaucracy, politicians and army officers, etc., have normally been recruited from social classes which represent a relatively small minority of population, the original assumption of an identity of government’s and subjects’ valuations becomes rather dubious, to say the least.

(2) It is fallacious to deduce from the physical fact that government does not buy for resale the economic fact that government is final consumer. For only individuals are final consumers in an economic sense. The administrative expenses of a firm do not represent product but cost, and the same applies to the nation as a whole. Some of the government activities add directly to the economic welfare of the population, the others add indirectly as intermediate products which are fed into the system, the final product being produced elsewhere. It appears that we can approach our problem in two ways but with identical results. In so far as administrative activities of government resemble those performed by a firm, they do not increase final product and represent costs. If, however, one prefers to say that government produces security, order, etc., then, as Kuznets points out, one must take into account that these ‘commodities’ are not final, because they are pre-conditions of social production and as such are intermediate products. Thus in the case of government (as in the case of any other economic agent) the character of the service rendered is the most meaningful criterion of productivity. In this way the problem under (1) disappears as irrelevant and we are able to provide a solution which is conceptually more satisfactory.

If we extend the notion of intermediate products to government services we are also able to avoid other inconsistencies of the American definition. So, for instance, it does not matter whether the agricultural institute in Vede is financed privately or out of taxation. In the first case the cost of the institute is treated as such by private accountants, in the second case by social product statisticians, and in both cases the value of social product remains unaffected.

Let us now define the criteria of the Kuznets definition somewhat more precisely. Its key concept is the concept of social intermediate products or, as I called it, social cost. What is social cost? Or, what is not social cost?

1 Even if the case is settled in your favour, judicial service is not productive; ‘Creation and destruction of rights is not in itself production of final goods, even though such rights may have market value for individuals and firms’ (Kuznets, Income and Wealth, Series I, op. cit., p. 195).

2 Just to provide an empirical illustration from a pre-Fascist period of comparative laissez-faire. W. Miller finds that in the decade 1901–10 about 88 per cent of the leading American politicians came from families of businessmen, politicians, and professionals. Only 2 per cent of them were of working-class origin (W. Miller, American Historians and the Business Elite, Journal of Economic History, 1949, pp. 204–206). Similar percentages are, of course, found in all other countries.

1 Another way of achieving consistency is to treat services of research institutes as accumulation of intellectual capital. However, there seems to be a general agreement that the concept of intangible capital is not very useful in quantitative economics.
Usefulness cannot provide a general criterion, because raw materials and fuel are also useful and still remain cost in producing final output. Neither is physical finality (no resale) a reliable criterion, since, as we have seen, in the American definition all government services are considered as final. In fact, upon a closer scrutiny the distinction between cost and income, although so commonly made in everyday life, turns out to be extremely difficult to define precisely and consistently. We must, however, refrain from discussing all the philosophical difficulties and try to provide a simple and workable — if not perfectly satisfactory — solution. The simplest and the most general definition seems to be the following: All those government services which do not enter directly into the consumption of individuals represent intermediate products or social costs. Social costs are in fact costs of social relations and of the social organization. Hence services 'not entering directly into the consumption of individuals' are not desired as such, but only as inputs in producing further output. The approach may be generalized to include all economic goods and services, whether governmental or not. Services of physicians are desired for most obvious reasons; services of bureaucracy are a necessary nuisance. Teachers help to develop mental and physical faculties of individuals, and so their services undoubtedly have a welfare content; the activity of lawyers is far from desirable. Good music, an ably written book, a fine picture — are things with which we would be most reluctant to dispense. But if we could
dispense with politicians, policemen, and gunmen in general we would be only too glad to do so. Similarly, while cars and fireworks may add to the welfare of the individuals, tanks and hydrogen bombs do not and, moreover, threaten to reduce it disastrously.

Together with the cost of the social organization in the narrow sense, this concept of social cost also includes intermediate product or cost of economic organization. For instance, the development of industry requires concentration of population, which in turn requires the development of towns and municipal services. In so far as short-distance walking to the place of work is replaced by bus journeys, the services of the local bus company should be considered as a social cost and not as a contribution to social product. The services of banks and other financial intermediaries provide another example. The upkeep of roads, in so far as they serve business, is also an example of an intermediate product adding nothing to the value of already computed social product. Finally, product lost because of underutilization of existing capacity and because of unemployment also represents an item of social cost. In sum, social cost is the cost of the entire social and economic organization of a particular society, the cost of a social system.

The way towards a definition of social product has now been paved. Social product is conceptually and statistically derived from potential product by subtracting the cost of the social system. A statistical estimate of this aggregate will be more difficult than that for either the Russian or American aggregates. However, Kuznets shows that statistical difficulties are not insuperable.

But even if statistical difficulties were so great that statisticians could not adapt their measurements fully to the requirements of the definition, some sort of second best approximation would have to be found. Without this little meaning can be attached to comparisons between social products (i.e. economically useful production) or between levels of living (individual consumption and socialized services taken together) of various countries or, for that matter, of the same country in a longer period.

1 Evidently the basic statistical estimate is that of potential product. This statistical aggregate must be comprehensive enough and detailed enough to allow the construction of various other aggregates necessary for economic analysis.

1 Kuznets suggests three criteria for identifying government services to ultimate consumers:

'(1) rendering the services for no price or for merely a token price — to distinguish them from others in which the government acts as a business enterprise;

'(2) the availability of the service only upon direct request or some overt initiative by the individual — to exclude such intangible benefits as government may confer upon society as a whole and upon an individual member, who may be quite unconscious of such benefits;

'(3) the existence of an analogue to the services, on a fairly substantial scale, on the private markets of the economy — to exclude government acts resulting from an individual's initiative that do not in fact constitute an economic service (balloting, securing services of a court etc.) (Kuznets, Economic, 1946, p. 6; cf. also idem, Series I, op. cit., pp. 192-200). These criteria are not entirely satisfactory. As to (1) every service rendered for less than is needed to cover cost may be treated as a subsidized business service. Compulsory education, compulsory vaccination, etc., will be found to contradict (2). And with respect to (3), the fairly substantial practice of hiring and paying private lawyers does not transform their services into positive contributions to social product.
IV. NET SOCIAL PRODUCT

Social product, however defined, always includes an item of duplication: capital consumption. We need to subtract this item to get Net Product. The following definition of Net Product will probably command wide agreement: Net Product is that part of Social Product which may be consumed without diminishing the productive capacity (i.e. the ability to produce the same Social Product again) of the economy within a specified period. The difference between Gross Product and Net Product so defined represents capital consumption. Alternatively, capital consumption may be defined as the capital expenditure necessary to maintain a given level of output. It has been universally accepted in social accounting practice that this capital consumption is more or less well measured by depreciation charges. But this seems to be a serious mistake, both theoretically and practically; particularly when the rates of growth are high.

The problem is not new in the economic literature, but the starting-point of the analysis has always been the depreciation and its multiplying effects. Since the depreciation of capital is a controversial concept, social product statisticians have continued to record what the firms do and have ignored the existence of the problem. But we may forget about depreciation completely and restate the problem of capital consumption – for the purpose of social accounting – in the following simple way.

Assume that technology and prices do not change, that the productive capacity of a fixed asset remains constant until it is scrapped, that its scrap value is zero, and that there is no gestation period of investment. These assumptions are only intended to simplify the arithmetic and will be abandoned later. Let $I$ stand for an annual portion of gross investment, $R$ for replacement, $K$ for gross capital stock, $r$ for the rate of growth of gross investment, and $n$ for the average service life of the assets. Then the process of capital accumulation, starting with a unit investment at the beginning of the year 1, will develop as follows:

\[
\text{At the end of the year } t \text{ the gross value of the capital stock will be equal to the sum of all investments reduced for the sum of all scrapings:}
\]

\[
\int_1^t I \, dt = \int_1^t R \, dt \quad \cdots \cdots (1)
\]

and as scrapped assets are gross investments made $n$ years earlier, $K_t$ will be equal to the sum of gross investments made since that date

\[
\int_1^t e^{rt} \, dt \quad \cdots \cdots (2)
\]

Replacement cost per unit of capacity at time $t$ will be equal to

\[
\frac{R_t}{K_t} = \frac{r}{e^{nr} - 1} \quad \cdots \cdots (3)
\]

If the capital coefficient is assumed to be equal to one (in order to avoid introducing a proportionality constant), then $K_t$ represents output capacity at time $t$ and $R_t/K_t$ means capital consumption per unit of output (granted that the capacity is fully utilized).

It will become apparent that, in spite of the fact that no technological changes occur, a given output will entail widely different capital consumption, depending on the length of the service life of assets, $n$, and the rate of growth, $r$. In a stationary economy the unit capital cost will be equal to

\[
\lim_{r \to 0} \frac{r}{e^{nr} - 1} = \frac{1}{n} \quad \cdots \cdots (4)
\]

In an economy of the Yugoslav type, where the average service life of productive assets is about thirty years and the rate of
growth about 8 per cent, capital cost per unit of output will amount to only
\[ \frac{r}{e^{nr} - 1} \cdot \frac{1}{n} = \frac{nr}{e^{nr} - 1} \quad \cdots (5) \]
or, in figures, to about \(\frac{1}{4}\) of the unit capital cost in a stationary economy. This difference is far too great to be neglected in the social accounting work.

Having derived the required result, we may discard the restricting assumptions made above. Consider the logic of expressions (3) and (5): capital costs per unit of output decrease the longer the service life of assets and the higher the rate of growth. This suggests that the phenomenon of the variability of unit capital costs is due to the fact that fixed assets are durable. Thus, whether technology changes or not, whether output capacity increases or diminishes in time, this cannot affect the fundamental property that fixed assets have of rendering services throughout more than one cycle of production, and can only lead to various mathematical complications of the above formulae.

For instance, assume that the output capacity of an asset decreases uniformly through time until at the end of its service life it is reduced to zero. Then every year a part of the lost capacity will have to be replaced out of gross investment. But it is again obvious that this part will be the smaller the longer the service life of the asset, and – relative to the total output of the economy – the higher the rate of growth. This is because the higher the rate of growth, the higher is the level of output at any one time, while the inherited replacement requirements are fixed and given. The same applies, of course, to an increase in output capacity through time. And if there are technological improvements, economic service life may be shortened and unit capital costs probably lowered below the level that our formulae suggest. And that is all.

Finally, let us look more closely at the expression (4). We recognize, of course, our old friend the depreciation charge. Thus the orthodox depreciation concept is merely a very special type of capital consumption, namely capital consumption in a stationary economy, and has been mistakenly generalized to measure capital consumption in any economy.

Theoretically, then, depreciation charges have no place in the modern macro-economic world. But this does not mean that social product statisticians should abandon them. In so far as social accounting is designed to register transactions as they occur, it ought to register the depreciation as it is actually charged. But this should not mislead us into believing that it measures the capital consumption of the economy. Indeed, it would be a very serious mistake – not just theoretical but a very practical one – if a Planning Bureau failed to realize that three-quarters of depreciation, which is usually charged, is used for capital accumulation.

V. SOME CONCLUSIONS

Summarizing the preceding argument, we come to the following conclusions:
(a) The Russian definition of social product produces statistical aggregates which are useful whenever we deal with commodity flows as distinct from services. But it has no theoretical foundation. In particular, the Russian definition cannot be derived from the Marxist economic and social theory, which is something entirely different.1

(b) The American definition reflects the social division of labour, and as such can be usefully employed when considering institutionally determined incomes for the purpose of analysing employment determinants, or factors making for inflation and deflation, or any economic problems for which the particular institutional set-up has great importance. But this definition is also theoretically inconsistent.

(c) The Kuznets definition, perhaps with modifications, yields statistical aggregates which may be treated as having welfare implications. It distinguishes intermediate and final products not only within the business sector but also within the government sector. The intermediate products of government are in the nature of social cost. Various social, economic, and political systems entail widely different social costs in running them, and these costs must be deducted from gross output in order to arrive

at the net value of goods and services contributing to the economic welfare of the members of a particular community.

(d) However we define gross product, the universally accepted theory and practice of deriving net product by subtracting depreciation (calculated according to the usual accounting rules) seems extremely misleading. In a dynamic world depreciation charges differ from the actual physical capital consumption, and as the rate of growth of the economy increases, these differences become very great. It has been suggested that in order to arrive at net product one should subtract replacement expenditures from gross product.

(e) The foregoing discussion should not be interpreted as implying that from now on the Russian and American aggregates should be discarded and replaced by that of Kuznets.1 The three aggregates serve different purposes. A real-world situation has two equally important aspects which should be considered and measured. On the one hand, we have a certain quantity of economic activities being performed in a particular society. This bundle of activities is well measured by Russian and American aggregates. But the same bundle of activities may produce a widely different end-result, depending on the technical characteristics and the general efficiency of the social framework of the society in question. The 'urban civilization' has different, and generally greater, social costs than an 'agricultural civilization'. The capital used and the hours worked may remain exactly the same when the industry is switched from the production of cars to the production of tanks. But no one can doubt that the welfare of the population will diminish. To cope with these effects we need the Kuznets aggregate.

In a society in which immediate and ultimate purposes of production coincide, i.e. where production is organized not in order to earn profits or accumulate capital but to satisfy human needs, labour is productive when it increases the welfare of the community. It is irrelevant, as it was for Marx, whether the product is a commodity or a service — labour expended on tanks is unproductive while teacher’s labour is productive; what is important is the social motivation behind the labour done. But

1 If one takes into account that the main preoccupation of Soviet planners is the speeding up of the accumulation of productive wealth while their American colleagues are absorbed by the problem of maintaining full employment — then the two definitions appear to have much sense and seem adapted to the different tasks they are implicitly intended to serve.
definition. On the other hand, Potential Product reduced by the amount of social cost would leave us with Welfare Product, which corresponds to the Kuznets' aggregate. Finally, in each case the net product is obtainable by subtracting replacement expenditures, or depreciation charges, when the recording of the latter seems institutionally important, as in the case of the American definition.

A very crude attempt to estimate the order of magnitudes of various aggregates for Yugoslavia in 1953 revealed the following differences. Taking the product according to the Russian definition as 100, the American aggregate was 114, Potential Product was 116 (including services of the Government, capital included, but neglecting non-utilization of resources) and the Welfare aggregate was 95. When labour of housewives and services of consumer durables were included Potential Product stood at 139 and Welfare Product at 118.

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