

# STUDIES IN METHODS

Series F No. 20 (Part II)

# COMPARISONS OF THE SYSTEM OF NATIONAL ACCOUNTS AND THE SYSTEM OF BALANCES OF THE NATIONAL ECONOMY

**Part Two** 

CONVERSION OF AGGREGATES OF SNA TO MPS AND VICE VERSA FOR SELECTED COUNTRIES

**UNITED NATIONS** 

DEPARTMENT OF INTERNATIONAL ECONOMIC AND SOCIAL AFFAIRS
STATISTICAL OFFICE

STUDIES IN METHODS

Series F No. 20 (Part II)

# COMPARISONS OF THE SYSTEM OF NATIONAL ACCOUNTS AND THE SYSTEM OF BALANCES OF THE NATIONAL ECONOMY

**Part Two** 

CONVERSION OF AGGREGATES OF SNA TO MPS AND VICE VERSA FOR SELECTED COUNTRIES



# NOTE

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

The term "country" as used in the text of this publication also refers, as appropriate, to territories or areas.

The designations "developed" and "developing" economies are intended for statistical convenience and do not necessarily express a judgement about the stage reached by a particular country or area in the development process.

Symbols of United Nations documents are composed of capital letters combined with figures. Mention of such a symbol indicates a reference to a United Nations document.

ST/ESA/STAT/SER.F/20 (Part II)

UNITED NATIONS PUBLICATION

Sales No. E.81.XVII.15

Price: \$U.S. 11.00

#### PREFACE

This publication is Part two of the study of the relationships between the System of National Accounts (SNA) 1/ used in the countries with market economies and the System of Balances of the National Economy (MPS) used in the countries with centrally planned economies. 2/

Part one of the study, entitled Comparisons of the System of National Accounts and the System of Balances of the National Economy:
Part one, Conceptual Relationships, 3/ published in 1977, describes the conceptual framework for intersystem comparisons developed by the United Nations. One of the important components of the framework is a set of conversion tables showing the exact adjustments needed for the conversion of the aggregates of SNA most suitable for international comparisons into their MPS counterparts and vice versa.

The purpose of Part two is to provide illustrative numerical calculations demonstrating the feasibility of application in practice of the conceptual framework and the conversion tables in particular.

As is well known, international comparisons of national product and similar aggregates of national accounting systems require international comparability with regard both to the concepts, definitions and classifications underlying the estimates, and to their valuation. The problems of valuation of aggregates in a common currency are not dealt with in this publication. Attention is given here to illustration of the conversion procedure in terms of concepts, definitions and classifications.

<sup>1/</sup> A System of National Accounts, Series F, No. 2, Rev. 2 (United Nations publication, Sales No. 69. XVII.3).

<sup>2/</sup> Basic Principles of the System of Balances of the National Economy, Series F, No. 17 (United Nations publication, Sales No. 71.XVII.10).

<sup>3/</sup> Series F, No. 20 (United Nations publication, Sales No. E.77.XVII.6).

As a review of national practices shows, there are differences in the methods of computation of national product figures even among countries with similar socio-economic systems which employ essentially the same concepts and definitions in their national accounting systems. Those differences, however, become more profound and systematic between countries with market economies and those with centrally planned economies applying substantially different conceptual frameworks for national accounting. Therefore, the problems of international comparability of the data on production, consumption and capital formation compiled within the framework of the national accounting systems of those two groups of countries deserve special attention.

The numerical illustration of the conversion of the aggregates of SNA and MPS most suitable for international comparison is an experimental exercise, the purpose of which can be defined more specifically as follows:

- (a) To show, in principle, the feasibility of application of the conceptual framework for intersystem comparisons set out in Part one;
- (b) To test, in particular, on the basis of actual data, the conversion tables designed for the derivation of net materia\_ product for the countries using SNA and gross domestic product for the countries using MPS;
- (c) To accumulate experience in processing the primary data needed for those calculations;
- (d) To give as accurately as possible estimates of the magnitudes involved and the relationships among them.

This exercise is in conformity with the recommendation of the Statistical Commission at its eighteenth session, which asked the Statistical Office "to gather, compile, and issue data periodically on the national accounting aggregates in respect of the supply and disposition of goods and services and incomes from production in terms of MPS in the case of countries using SNA and in terms of SNA in the case of countries using MPS.

The study of SNA/MPS links is an important part of the overall work carried out by the Statistical Commission in the field of international comparison of national product and similar aggregates. The data obtained with the help of those comparisons are widely used both at the national and international levels for comparative analysis of the economy, economic policy-making and research. International organizations seek comparable data on national product for solving their various practical problems ranging from co-ordination of the economic plans and programmes of their member States to computations of weights needed to calculate regional and world index numbers. They need

internationally comparable data to determine the share of the countries in financing certain common projects and outlays. For example, at the United Nations, internationally comparable data on national product constitute one of the important factors used in determining the contributions of countries to the United Nations budget; at the Council for Mutual Economic Assistance (CMEA), internationally comparable data on national product are used to determine the share of the CMEA member countries in financing certain common expenditures.

# CONTENTS

	Paragraphs	Page
	PREFACE	iii
Chapter		
	INTRODUCTION	1
I.	GENERAL METHODOLOGY	6
II.	CALCULATIONS FOR SELECTED COUNTRIES 2.1 - 2.124	12
	Developed countries 2.1 - 2.65	12
	1. United States of America 2.1 - 2.22	12
Table		
1.1	Condensed input/output table, United States, 1963	18
1.2	Derivations of net material product from data on value-added, United States, 1963	19
1.3	Derivation of net material product from data on final uses, United States, 1963	20
1.4	Derivation of net material product from data on gross output and intermediate consumption, United States, 1963	21
1.5	Condensed input/output table, United States, 1967	. 22
1.6	Transfers of secondary output, United States, 1967	23
1.7	Cost structure of secondary output of non-material services transferred from industries of the material sphere to industries of non-material sphere, United States, 1967	24
1.8	Derivation of net material product from data on value-added, United States, 1967	. 25
1.9	Derivation of net material product from data on final uses, United States, 1967	. 26
1.10	Derivation of net material product from data on gross output and intermediate consumption, United States, 1967	

Table		Paragraphs	Page
	2. United Kingdom of Great Britain and Northern Ireland	. 2.23 - 2.38	28
2.1	Condensed input/output table, United Kingdom, 1963		. 33
2.2	Derivation of net material product from data on value-added, United Kingdom, 1963	••••••	. 34
2.3	Derivation of net material product from data on final uses, United Kingdom, 1963	•••••	. 35
2.4	Derivation of net material product from data on gross output and intermediate consumption, United Kingdom, 1963	••••••	. 36
2.5	Condensed input/output table, United Kingdom, 1971	•••••	. 37
2.6	Derivation of net material product from data on value-added, United Kingdom, 1971	• • • • • • • • • • • • • • • • • • • •	. 38
2.7	Derivation of net material product from data on final uses, United Kingdom, 1971	• • • • • • • • • • • • • • • • • • • •	• 39
2.8	Derivation of net material product from data on gross output and intermediate consumption, United Kingdom, 1971		. 40
2.9	Condensed input/output table, United Kingdom, 1972	• • • • • • • • • • • • • • • • • • • •	. 41
2.10	Derivation of net material product from data on value-added, United Kingdom, 1972	• • • • • • • • • • • • • • • • • • • •	. 42
2.11	Derivation of net material product from data on final uses, United Kingdom, 1972	••••••	. 43
2.12	Derivation of net material product from data on gross output and intermediate consumption, United Kingdom, 1972	• • • • • • • • • • • • • • • • • • • •	<b>.</b> 44
	3. Japan		45
3.1	Condensed input/output table, Japan, 1965		. 48

Table		Paragraphs	Page
	Japan (continued)		
3.2	Derivation of net material product from data on value-added, Japan, 1965	• • • • • • • • • • • • • • • • • • • •	49
3.3	Derivation of net material product from data on final uses, Japan, 1965	• • • • • • • • • • • • • • • • • • • •	50
3.4	Derivation of net material product from data on gross output and intermediate consumption, Japan, 1965		50
3.5	Condensed input/output table, Japan, 1970	•••••	51
3.6	Derivation of net material product from data on value-added, Japan, 1970	•••••	52
3.7	Derivation of net material product from data on final uses, Japan, 1970		53
3.8	Derivation of net material product from data on gross output and intermediate consumption, Japan, 1970	•••••	53
	4. Austria	. 2.50 - 2.57	54
4.1	Condensed input/output table, Austria, 1964	•••••	56
4.2	Derivation of net material product from data on value-added, Austria, 1964		57
4.3	Derivation of net material product from data on final uses, Austria, 1964	, <b></b> .	58
4.4	Derivation of net material product from data on gross output and intermediate consumption, Austria, 1964		59
	5. Finland		60
5.1	Condensed input/output table, Finland, 1965		62
5.2	Depreciation of fixed assets, Finland, 1965		63
5.3	Derivation of net material product from data on value-added, Finland, 1965		64

Table		Paragraphs	Page
	Finland(continued)		
5.4	Derivation of net material product from data on final uses, Finland, 1965	• • • • • • • • • • • • • • • • • • • •	65
5.5	Derivation of net material product from data on gross output and intermediate consumption, Finland, 1965	• • • • • • • • • • • • • • • • • • • •	66
	Developing countries	2.66 - 2.105	67
	6. Peru	2.66 - 2.74	67
6.1	Condensed input/output table, Peru, 1969		69
6.2	Derivation of net material product from data on value-added, Peru, 1969		70
6.3	Derivation of net material product from data on final uses, Peru, 1969		71
6.4	Derivation of net material product from data on gross output and intermediate consumption, Peru, 1969	•••••••	72
	7. Philippines	2.75 - 2.91	73
7.1	Condensed input/output table, Philippines, 1961		76
7.2	Derivation of net material product from data on value-added, Philippines, 1961	• • • • • • • • • • • • • • • • • • • •	77
7.3	Derivation of net material product from data on final uses, Philippines, 1961	• • • • • • • • • • • • • • • • • • • •	78
7.4	Derivation of net material product from data on gross output and intermediate consumption, Philippines, 1961		<b>7</b> 9
7.5	Condensed input/output table, Philippines, 1965.	• • • • • • • • • • • • • • • • • • • •	80
7.6	Derivation of net material product from data on value-added, Philippines, 1965		81

Table		Paragraphs	Page
	Philippines (continued)		
7.7	Derivation of net material product from data on final uses, Philippines, 1965		. 82
7.8	Derivation of net material product from data on gross output and intermediate consumption, Philippines, 1965		. 83
	8. Zambia	. 2.92 - 2.105	84
8.1	Condensed input/output table, Zambia, 1969		. 87
8.2	Derivation of net material product from data on value-added, Zambia, 1969		. 88
8.3	Derivation of net material product from data on final uses, Zambia, 1969		. 89
8.4	Derivation of net material product from data on gross output and intermediate consumption, Zambia, 1969		. 90
8.5	Condensed input/output table, Zambia, 1971		. 91
8.5a	Supply and disposition of goods and services, Zambia, 1971		. 92
8.6	Derivation of net material product from data on value-added by sector, with adjustments for services produced in sectors mainly producing goods and vice versa, Zambia, 1971		. 93
8.7	Derivation of net material product from characteristic demand data, Zambia, 1971		. 94
8.8	Derivation of net material product from data on gross output and intermediate input by sector, with adjustments for services produced in sectors mainly producing goods and vice versa, Zambia, 1971		95
8.9	Cost structure of gross output of non-material services (non-characteristic products) produced by the material sphere, Zambia, 1971		96

Table		Paragraphs	Page
	Zambia (continued)		
8.10	Cost structure of gross output of material goods (non-characteristic products) produced by the non-material sphere, Zambia, 1971	••••••	• 97
	Centrally planned economies	2.106 - 2.124	98
	9. Hungary	2.106 - 2.115	98
9.1	Condensed input/output table, Hungary, 1972		. 100
9.2	Derivation of gross domestic product from data on net material product, according to kind of activity, Hungary, 1972	•••••	. 101
9.3	Derivation of gross domestic product from data on net material product according to categories of final use, Hungary, 1972		. 102
9.4	Derivation of gross domestic product from data on gross output and intermediate consumption, Hungary, 1972	• • • • • • • • • • • • • • • • • • • •	<b>. 10</b> 3
9.5	Derivation of gross domestic product from data on net material product according to types of primary incomes, Hungary, 1972		. 104
9.6	Total consumption of the population, Hungary, 1972		. 105
9.7	Condensed input/output table, Hungary, 1976	•••••	. 106
9.8	Derivation of gross domestic product from data on net material product according to kind of activity, Hungary, 1976	•••••	. 107
9.9	Derivation of gross domestic product from data on net material product according to categories of final use, Hungary, 1976		. 108
9.10	Derivation of gross domestic product from data on gross output and intermediate consumption, Hungary, 1976		. 109

#### INTRODUCTION

This publication contains the results of experimental illustrative calculations carried out to derive estimates of net material product for eight countries using the SNA and estimates of gross domestic product for two countries using MPS. The calculations were prepared by the Statistical Office of the Department of International Economic and Social Affairs, United Nations Secretariat, in close collaboration with the central statistical offices of the participating countries, which supplied requested data and made comments on the drafts of the conversion tables. The Hungarian Central Statistical Office was the principal author of the estimates of gross domestic product for that country.

Estimates of net material product were carried out for:

# Developed market economies

United States of America, for 1963 and 1967 United Kingdom of Great Britain and Northern Ireland, for 1963, 1971 and 1972 Japan, for 1965 and 1970 Austria, for 1964 Finland, for 1965

# Developing countries

Peru, for 1969 Philippines, for 1961 and 1965 Zambia, for 1969 and 1971

Estimates of gross domestic product were carried out for:

Centrally planned economies

Hungary, for 1972 and 1976 Yugoslavia, for 1962 and 1970

Input/output tables were found to be the most useful source of the primary data needed for the intersystem comparisons. They contain data which, broadly speaking, fit the framework for intersystem comparisons and the schemes of the conversion tables set out in Part one. In order to make the original input/output tables convenient and adapted to the calculations, they were condensed to major divisions of the

International Standard Industrial Classification of All Economic Activities. 1/ Since ISIC does basically distinguish between industries producing material goods and industries rendering non-material services, the flows of material goods were thus separated from the flows of non-material services in the condensed input/output tables. This made it possible to identify the most important adjustments associated with major conceptual differences between the two systems.

In some cases, however, additional information was requested from and supplied by the central statistical offices of the participating countries so that the borderline could be drawn between the two spheres of the economy for each country more precisely. This was the case for data on value-added of selected material activities not infrequently shown in the input/output tables combined with non-material activities.

The latest version of the CMEA classification by kind of economic activity approved by the CMEA Standing Commission on Statistics at its twenty-sixth session was used to ensure a uniform definition of the material sphere. According to that classification, the material sphere is defined to include industry, construction, agriculture, forestry transportation, communication, trade and other branches. 2/ Transportation of both goods and passengers is included for practical reasons; correspondingly, communication includes services both to business units and to households.

In some cases, due to lack of data, it proved to be impossible to isolate certain material activities from industries of the non-material sphere and vice versa. For example, distribution of water and gas was not separated from their production and in many cases the output of hotels includes payments to restaurants etc.

Special efforts were undertaken to separate secondary output of non-material services originally produced by industries of the material sphere but "transferred" to industries of the non-material sphere where those services are normally produced as characteristic products in the input/output tables of the United States and Zambia. This has made it possible to draw a more precise borderline between material and non-material activities. The detailed explanatory notes on the

<sup>1/</sup> See the Indexes to the International Standard Industrial
Classification of All Economic Activities, Series M, No. 4, Rev. 2, Add.l
(United Nations publication, Sales No. E.71.XVII.8).

<sup>2/</sup> Certain activities which provide material services are allocated to various industries of material production - e.g., dyeing and cleaning and laundries are classified under industrial activities; veterinary services are classified under agriculture; motion picture production is classified under other branches of the material sphere.

procedure that was employed for the handling of secondary output are given in the chapters describing the derivation of net material product for the United States and Zambia.

Since the net material product is defined to exclude consumption of fixed assets employed in material production, efforts were made to separate that item from the gross operating surplus shown in the input/output tables of a number of countries in some cases data were extracted from sources other than input/output tables, e.g., from national publications on national accounts statistics in some cases, estimates were made of consumption of fixed assets on the basis of data on stocks of fixed assets and rates of depreciation.

In most cases, input/output tables are conceptually and statistically integrated with the national accounts, so that the figures on gross domestic product or net material product contained in the input/output tables are identical to those recorded in the framework of national accounts and balances. In some cases, however, there are differences between the two sources of data; such differences are noted in the country chapters.

A summary of the main results of the intersystem calculations is given in table A. It shows the relationships between the original data compiled according to SMA (MPS) methods, and the estimates of the corresponding categories of MPS (SMA) derived in the conversion tables. Ratios are calculated for the following pairs of aggregates: gross domestic product and net material product net domestic product and net material product final consumption expenditure according to SMA and MPS concepts, respectively gross capital formation and net capital formation gross fixed capital formation and net fixed capital formation.

It will be noted that the ratios between SMA categories and the corresponding categories of MPS, and vice versa, differ considerably both from country to country and from one aggregate to another within a country. For example, the ratios between net domestic product and net material product for the countries with market economies range from 134.9 for the United States to 106.9 for Zambia. The fluctuations in the ratios are caused by differences in the industrial structures of the economies and differences in the structure of disposition of goods and services. It is clear, for example, that a relatively large share of the gross output of material goods absorbed by industries of non-material services is a factor which, other conditions being equal, decreases the difference between gross domestic product and net material product for countries using SMA. It may also be noted that while for some countries, e.g., United States and United Kingdom - the excess of gross domestic product over net material product is larger for recent years than for earlier years, for other countries e.g., Japan and Peru - the opposite trend is observed.

This publication consists of two chapters. The first contains a brief description of the general methodology used for intersystem calculations, and the second is devoted to a detailed description of the methodology used for each country. The second chapter contains 10 sections - one per country. Each section includes a description of the sources of data used, an explanation of the procedure employed to derive certain needed adjustments and the presentation of the actual estimates.

Table A. Relationships between the original data on the main aggregates of SNA (MPS) and the estimates of the corresponding categories derived in the conversion tables

Aggregates		(SNA cate	ships between the gories as a perceponding MPS cate	entage of	·
Countries and years	Gross domestic product and net material product	Net domestic product and net material product	Final consumption expenditure according to SNA and MPS respectively	Gross capital formation and net capital formation	Gross fixed capital formation and net fixed capital formation
	1	2	3	4	5
	The	woloned source	Market economie	8	
Japan	Dé	veloped coun	cries		
1965	129.5	112,9	121,3*	166,0	172.6
1970	126.1	109.7	120,5	150,1	157.0
United Kingdom					
1963	136.1	125,7*	130,1	196,1	204.9
1971	143.0	130,1*	138,6	222,2	225,2
1972	144.4	131.1	138,2*	229,4	229.9
United States	*****	1,1,1	-50-6-	LL),	22/6/
1963	147.0	133.9	135.7	264,3	302,1
1967	147.3	134,9	137.4	227.2	268,5
Austria					
1964	126,5	112,5	114,6	167.0	178,6
Finland					
1965	136,9	124,3	132,3	150.0	150,8
	Ď	eveloping so	mntries		
Peru			_		
1969	119,5	115.9	122,6	141,6	150,0
Philippines					
1961	121,8	112,3	119,7	171,4	542,2
1965	127,4	120,6	<b>130,</b> 6	164.9	170,0
Zambia		/-	•••	. ( )	
1969	113,3	106,3	119 <b>.7</b> 124 <b>.</b> 4	167.4	151,5
1971	134,8	115.8	1644	171.9	189.4
	C	Centrally pla	anned economies		
Hungary					
1972	119.5	106,0	108,0	154,2	183.2
1976	119,3	105,0	107.2	148,4	184,6
Yugoslavia					
1962	124,5	115,3	121,1	132,1	137.6
1970	129,2	118,3	124.5	132,9	144,6

<sup>\*</sup> The figures on net material product derived in the conversion tables were adjusted by value added originating in selected material services. The adjustments were made outside the conversion tables.

# Chapter I

#### GENERAL METHODOLOGY

- 1.1 As was indicated above, a description of the conceptual framework for the international comparisons of the production, consumption and capital formation aggregates of SNA and MPS is set out in Part one of this publication and need not be repeated here in detail. Only the most essential principles for linking the aggregates of the two systems underlying the conversion procedure will be introduced here.
- 1.2 The conceptual framework for intersystem comparisons consists of three basic components:
- (a) A detailed description of the differences in concepts, definitions and classifications used in the production, consumption and capital formation accounts of SNA and in the balance of production, consumption and accumulation of the global product of MPS.
- (b) Modified matrices of SMA and MPS where the flows treated differently in the two systems are identified in a more precise manner;
- (c) A set of conversion tables where specific adjustments are made to permit a transition from SNA categories to their MPS counterparts and vice versa.
- 1.3 Three types of conversion tables are used:
- (a) A conversion table relying on value-added data, classified by industry of origin;
  - (b) A conversion table relying on final demand data.
- (c) A conversion table relying on gross output and intermediate input data.

Since consistency in the interrelated adjustments occurring in the different conversion tables is ensured in principle by the use of input/output data, the estimates of gross domestic product (net material product) derived in all three types of conversion tables should be identical.

1.4 The conversion is carried out for the corresponding aggregates of the two systems relating to supply and disposition of goods and services and to income from production. The aggregates thought to be the most suitable for international comparisons are:

# On the SNA side:

Domestic product (gross and net)

Final consumption expenditures, subdivided into (i) final consumption expenditures by households, and (ii) other final consumption

Gross capital formation, subdivided into (i) gross fixed capital formation, and (ii) increase in stocks

Exports and imports

### On the MPS side:

Net material product

Consumption of material goods, subdivided into (i) personal material consumption, and (ii) other final consumption

Net capital formation, subdivided into (i) net fixed capital formation, and (ii) increase in stocks

Exports and imports of material goods.

- 1.5 The schemes of conversion tables set out in Part one also provide the adjustments needed for linking some other categories, e.g., gross output and intermediate consumption; components of value-added, such as compensation of employees, operating surplus including indirect taxes, net; etc. It should be noted, however, that gross output and intermediate consumption are less suitable for intersystem comparisons because of institutional incomparabilities, and therefore, linking of those categories in the conversion tables is of a purely technical nature the conversion of those items is carried out to ensure intermediate data needed to derive the estimates of gross domestic product (net material product).
- As for the components of value-added, comparable data on those categories may be useful for comparative structural analysis, with certain reservations; the impact of differences in institutional arrangements should be borne in mind. For example, in countries with centrally planned economies, many expenditures associated with the compensation of employees are financed out of operating surplus; peculiarities in the price structure and in the ratio of depreciation may also hinder structural analysis. The conversion tables included in this publication do not contain sufficiently detailed adjustments to convert individual components of value-added in one system to another, except for the conversion carried out by the Hungarian Central Statistical Office.

- 1.7 Total consumption of the population, which is defined to include the acquisition of consumer goods and services by households financed from all sources, is another aggregate suitable for international comparison purposes. In this publication, however, it proved to be possible to make estimates of total consumption of the population only for Hungary.
- 1.8 All differences between the aggregates of the two systems considered can be, broadly speaking, classified in two major groups. first group comprises differences arising from differences in the fundamental concepts underlying/the systems. The second group reflects peculiarities in statistical practice, in sources of data, in traditions etc. An example of the first type of differences is the definition of the boundaries of economic production. In SNA, production includes all market and government activities resulting in production of material goods and non-material services, and also the services of dwellings occupied by their owners, domestic services, and production for own use by households of primary commodities (agricultural, fishing, forestry, mining and quarrying commodities) and small manufactures. In MPS, economic production is restricted to production of material goods and material services. Own-account production by households of primary commodities is included, as is construction of dwellings on own account by households and household processing of agricultural goods. Ownership of dwellings is not included, nor are domestic services 1/. In contrast to SNA, own consumption of such articles as shoes, clothing etc., by small unincorporated units is not included in the global product in MPS.
- 1.9 The differences in the definition of economic production lead to corresponding differences in the concepts of consumption (both final and intermediate) and redistribution. Thus, while in SMA final consumption expenditure includes, among other things, purchases of non-material services by households and consumption expenditures by the general government and private non-profit organizations, in MPS final consumption is defined, broadly speaking, to include purchases of material goods by households, consumption of fixed assets in the form of dwellings, and material input (including depreciation), absorbed by the industries providing non-material services.
- 1.10 The differences in the concepts of economic production do not affect the content of the capital formation flows in the two systems, where the main difference is that SNA capital formation is computed on both gross and net bases, i.e., before and after deduction of consumption of fixed assets while in MPS, that item is defined only on the net basis, excluding consumption of fixed assets.

<sup>1/</sup> The definition of material production sphere is given in Council for Mutual Economic Assistance, Classification by Kind of Economic Activities of the CMEA Country-members (Moscow, 1975).

- 1.11 The content of exports and imports in the two systems is, of course, co-ordinated with the concept of production. Therefore, one of the major differences is that in MPS those items are defined to include only material goods and services, whereas in SNA they include both material and non-material goods and services.
- 1.12 Examples of differences of the second kind are the treatment of business travel expenditures; expenditures on cultural, recreational and similar services provided by enterprises to their employees expenditures on public relations designed to improve good will towards the business; transfer costs on purchases of intangible assets, land and mineral deposits; and losses of stocks. Mention should be also made of differences in the treatment of expenditures by residents abroad and by non-residents in the given country, of the work in progress in construction, and of the expenditures on military purposes. Also worth noting is the difference in the scope of consumption of fixed assets in the two systems: while in SNA that flow includes allowances for normal wear and tear foreseen obsolescence and normally expected accidental damage of fixed capital, MPS includes in addition the undepreciated value of scrapped fixed assets, which is considered to measure unforeseen obsolescence; also, SNA values consumption of fixed assets at replacement value, while MPS uses original value, or cost.
- 1.13 In the conversion tables presented in the country sections below, adjustments were in all cases introduced to account for the major conceptual differences between two systems associated with the differences in the definition of economic production. In some cases, the input/output tables also contained the information needed for adjustments of the second type. For example, the Japanese input/output tables include separate data on final consumption expenditure outside households. In some other cases, data on those items were requested from and supplied by the central statistical offices of the participating countries.
- 1.14 The major adjustments made in the actual country conversion tables can be set out as follows:

The conversion procedure relying on value-added data is described in the following equation:

$$G-D-V+P+E+I = N$$
 (1)

where G denotes GDP; D, consumption of fixed assets; V, value-added originating in the non-material sphere; P, purchases of non-material services by material sphere; E, business travel expenditures in the material sphere; I, expenditures on cultural, recreational etc. services by enterprises of the material sphere to their employees; and N, net material product.

The adjustments in the conversion tables relying on final demand data are described by the following equation:

$$G-D-F+L+D^{1}+E^{m}+I^{m} = N$$
 (2)

where G, D and N are as above; F, final consumption of non-material services; L, material input by non-material sphere: D<sup>1</sup>, consumption of fixed assets in the non-material sphere: E<sup>m</sup>, the material part of business travel expenditures both in the material and the non-material spheres, e.g. payments for transportation, purchases of goods, etc.: I<sup>m</sup>, the material part of the expenditures on recreational, cultural etc. services provided by enterprises of both spheres of the economy to their employees.

Finally, the adjustments made in the conversion tables based on gross output and intermediate consumption data are described by the following equations:

$$Q - Q_1 = Q_2 \tag{3}$$

$$M-M_1+D_2-P-E-I = M_2$$
 (4)

$$Q_2 - M_2 = N \tag{5}$$

where Q is gross output of material goods and non-material services  $Q_1$ , gross output of the non-material sphere;  $Q_2$ , gross output of material goods;  $M_2$  intermediate consumption;  $M_1$ , intermediate consumption in the non-material sphere;  $M_2$ , intermediate consumption in the material sphere including depreciation;  $D_2$ , consumption of fixed assets in the material sphere; and  $P_2$  E and I as equation (1).

- 1.15 These adjustments account for most of the difference between the two systems from a statistical point of view at the level of GDP (NMP). Other adjustments, which have been omitted from the actual conversion tables due to lack of data, in many cases affect only the structure of GDP (NMP), but not their totals. For instance, this is true of material assistance to foreign countries, which is included in intermediate consumption of general government in SNA, but in exports in MPS. Another example relates to work in progress in construction, which is allocated to gross fixed capital formation in SNA, but to increase in stocks in MPS. The differences in the treatment of purchases of goods and services by residents abroad and by non-residents in the given country, affecting both external trade flows and final consumption expenditures, to a considerable extent cancel each other at the level of GDP (NMP).
- 1.16 It should also be noted that no special steps have been taken in the actual conversion tables to achieve comparability of the scope of individual industries. The only exception is in calculations of GDP for Hungary, in the course of which special adjustments were made to allow for differences in the content of the individual branches. The reliability of the estimates of GDP (NMP) is, therefore, less at the level of individual categories of final demand and of individual industries than at the level of the total GDP (NMP).

- 1.17 Input/output tables are believed to be the most suitable source of the primary data needed for intersystem comparisons. They are in most cases integrated conceptually and statistically with the national accounts, and they contain data in a form which is convenient for intersystem comparisons. Yet in most instances, input/output tables have to be adapted to be suitable for that use, by aggregation of sectors, isolation of material activities from non-material activities when they are shown together, and reallocation of certain flows. For example, in some cases indirect taxes on final product originally shown in the quadrant IV of input/output tables must be reclassified by industry of origin and shifted to the quadrant III.
- 1.18 As was indicated above, in some cases input/output data were supplemented from other sources of information. In such cases, the adjustments needed for derivation of GDP (MMP) were made outside the conversion tables. This approach was adopted because it was thought to be essential to maintain consistency among the various items of conversion tables. Only under those conditions can they be understood and interpreted. Thus, all the adjustments in the conversion tables compiled below for the participating countries are extracted exclusively from input/output tables. The only exceptions are the conversion tables for Hungary, in which it proved to be possible to co-ordinate data obtained from different sources. This approach has made is possible to ensure virtually identical estimates of the GDP (MMP) in all three conversion tables compiled for each country. Some minor discrepancies in the conversion tables are in most cases caused by the discrepancies in the original input/output tables.
- 1.19 As was indicated in Part one, the international comparability of national product and similar aggregates of national accounting systems depends not only on the concepts and definitions underlying the quantitative estimates of those categories but also to some extent on the institutional organization of economies. For example, a comparison of national product figures may be affected by differences in the way expenditures on television and radio services are financed. The results, to some extent, depend on whether those expenditures are financed out of payments by households, which are allocated to final consumption, or out of payments for advertisements by business units, which are normally considered as intermediate input. Another example in this area relates to differences in methods of financing expenditures on scientific and research services provided to business units.
- 1.20 The impact of differences of that sort between the countries with market economies and countries with centrally planned economies is not taken into account in the present exercise; owing to lack of data.
- 1.21 More specific matters connected with the derivation of gross domestic product (net material product) for the participating countries are described below in the discussions for individual countries.

# Chapter II

#### CALCULATIONS FOR SELECTED COUNTRIES

### Developed countries

# 1. United States of America

# Sources of data and their primary processing

- 2.1 The main source used in compiling the condensed input/output tables for the United States and the conversion tables is <u>Input-Output Structure</u> of the United States Economy, vol. 1, Transactions Data for Detailed <u>Industries</u>, <u>1</u>/ for the years 1963 and 1967. Some supplementary data on services, employee compensation and indirect business taxes were extracted from <u>Survey of Current Business</u>, July 1968 and November 1969. All additional calculations needed for condensing the input/output tables were made by the Bureau of Economic Analysis of the United States Department of Commerce.
- 2.2 The data of the original input/output tables for 1963 and 1967 contain information on the interindustry transactions of 85 industries, the sales of each industry to final uses and the components of its value-added. Some reclassification of the data was necessary for this study, and the input/output tables were condensed in order to cover the transactions of 18 industry groups within the framework of ISIC.
- 2.3 The output of research and development activities of private educational and non-profit institutions and of independent laboratories, which in the original United States tables are classified with miscellaneous business services, was shown separately in the condensed table for 1963. That separation was not made in the input/output table for 1967. It was assumed that the research and development activities of general government are reflected in its purchases. Most other private research and development activities are conducted by industries producing those items, and the costs of the research activities are covered in the selling prices of the items.
- 2.4 Hotels and lodging places are considered as rendering non-material services according to MPS definitions of the scope of productive activities. Separate rows and columns for those activities are, therefore, shown in the condensed input/output tables, although they are included with distribution trades in the original tables. Motion picture production, automobile

<sup>1/</sup> United States Department of Commerce (United States Government Printing Office).

repairs and services, dyeing, cleaning, shoe repairs and similar personal services were transferred to the material sphere because they are part of material production in MPS. The item "Community, social and personal services, excluding material services", therefore, only covers amusement and recreational services, barber and beauty shops, and medical and educational services, including such services provided by non-profit institutions.

- 2.5 The original input/output tables included entries for a number of dummy industries, the most important of which are business travel, entertainment and gifts, office supplies, and scraps, wastes and second-hand goods. The first group was retained without change, because it provides data needed for intersystem comparisons. The two last dummy industries were combined in the condensed input/output tables.
- 2.6 In the input/output tables of the United States, secondary output in most cases is treated as if sold by the producing industry to the industry of which it is a typical product, and is added to the output of that industry before being distributed by users. If a secondary output differs considerably from an industry's typical output and particularly if it is a large portion of its total output, the industry was redefined to exclude secondary output.
- 2.7 For intersystem comparisons the following adjustments must be made:
- (a) Transfers of secondary output of non-material services must be separated from data on actual intermediate consumption 2/
- (b) Components of input (both intermediate and primary) associated with the transferred secondary output of non-material services must be identified.

Strictly speaking a similar operation should have been carried out for the secondary output of material goods originally produced by industries of the non-material sphere. That was not done, however, because such cases are quantitatively of little importance.

- 2.8 Isolation of these items made it possible to obtain the adjustments needed in the conversion tables, in particular, material input by industries of the non-material sphere, and secondary gross output of non-material services.
- 2.9 The separation of the items in question was carried out in the condensed input/output table for 1963 (table 1.1). The entries in the cells at the intersections of columns 1-6 and 8 and of rows 3b, 4b, 5b, 8b, 9b, and 10b refer to inputs associated with the secondary output of non-material

<sup>2/</sup> The operation is especially important in cases when the secondary output of non-material services produced by establishments in the material sphere is transferred to the appropriate industries of the non-material sphere.

services transferred largely to the "Finance, insurance, real estate" industry. The entries in the cells at the intersections of column 9 and rows 1b, 2b, 3b, etc. refer to transfers of the secondary output of non-material services from industries producing material goods, in particular agriculture.

2.10 For 1967, data on transfers of secondary non-material products and on the corresponding inputs are shown in supporting tables 1.6, "Transfers of secondary output, United States, 1967" and 1.7, "Cost structure of secondary output transferred from industries of the material sphere to industries of the non-material sphere, respectively. Those tables were compiled on the basis of information supplied by the Bureau of Economic Analysis of the United States Department of Commerce. In contrast to the procedure adopted for 1963, the adjustments were not introduced into the condensed input/output table. Therefore, the information contained in the input/output table had to be supplemented by the supporting tables 1.6 and 1.7. For example, in order to obtain data on material inputs of industries of the non-material sphere, it was necessary to deduct from intermediate consumption shown in the input/output table the transfers of secondary output of non-material services shown in table 1.6.

# Derivation of gross national product in the conversion tables

- 2.11 Most of the items needed for derivation of gross national product in the conversion tables can be identified in the condensed input/output tables. Therefore, only a few explanatory notes needed to clarify the procedure used to derive certain items are given below.
- 2.12 First, some comments should be made on the procedure employed for the calculation of gross output and intermediate consumption shown in table 1.4, where gross national product is obtained as the difference between those two categories. Gross output is taken to be the difference between "total output" in the condensed input/output table (\$1142.7 billion) and the sum of the following items: the output of dummy industries (\$7.8 billion + \$3.6 billion): secondary output of non-material services transferred from the material sphere to "Finance, insurance and real estate" (\$16.6 billion): transferred imports shown in the input/output table (\$14.3 billion). Intermediate consumption was computed as the difference between "total intermediate consumption" shown in the condensed input/output tables (\$532.7 billion + \$19.6 billion) and the sum of the items deducted above from gross output.
- 2.13 A somewhat similar procedure was used to compile gross output and intermediate consumption for 1967, presented in table 1.10. Gross output was computed as the difference between "Total output" shown in the condensed input/output table (\$1490.2 billion) and the sum of the following items: transferred imports (\$22.6 billion); secondary output of non-material services produced by material activities (\$21.6 billion); gross output of dummy industries (\$11.2 billion + \$21.6 billion). Intermediate consumption was obtained as the difference between "Total intermediate consumption" shown in the condensed input/output table (\$694.9 billion) and the sum of the items deducted above from gross output.

2.14 In order to improve the breakdown of gross national product by industry of origin, data on value-added originating in the subsidiary activities producing secondary output of non-material services were taken into account. While for 1963 those data can be identified in the condensed input/output table, for 1967 they are shown in supporting table 1.7, "Cost structure of secondary output transferred from industries of the material sphere to industries of the non-material sphere".

# Derivation of net material product

- 2.15 The adjustments needed to convert GDP into net material product for 1963 and 1967 are consistent with the general methodology described in chapter I. Most of the adjustments are associated with the difference in treatment of non-material activities. It proved possible to take into account differences in handling of business travel expenditures and revaluation of stocks. Since in the original input/output tables of the United States, the concept of national rather than domestic product is employed, an additional adjustment was made to take care of the difference in treatment in the two systems of net factor income from abroad (MPS uses a territorial basis of registration).
- 2.16 The explanatory comments given below are intended to clarify the procedure used to compute certain adjustments.
- 2.17 In table 1.8 for 1967, the value of non-material services consumed by industries of the material sphere is taken as the difference between the purchases of non-material services by material activities, shown in the condensed input/output table, and the input of similar items by the subsidiary non-material activities of the material sphere, shown in table 1.7. Such a procedure was not, however, necessary for 1963 because, as indicated above, the input by subsidiary activities is shown separately in the condensed input/output table itself. Because of lack of data, it was assumed that directly allocated imports by industries of the material sphere consist only of material goods and, therefore, the above-mentioned item includes only purchases of domestically produced non-material services. This relates to calculations for both 1967 and 1963.
- 2.18 Material input in the non-material sphere shown in table 1.9 for 1967 is computed as follows: the sum of intermediate consumption by industries of the material sphere shown in the condensed input/output table is reduced by imports transferred to industries of the non-material sphere (because that item does not represent actual input), value of non-material services consume by the non-material sphere, business travel expenditures by the non-material sphere, and secondary output of non-material services transferred from the industries of the material sphere to the industries of non-material sphere; the latter item is subtracted because in the input/output table the "transfer are combined with the actual input of goods. The residual was then increased by the material input of subsidiary activities of the material sphere producing non-material services as a secondary output; the data on that item are contained in table 1.7. A somewhat similar procedure was used in the case of calculations for 1963. In calculations for both 1967 and 1963, it was

again assumed that imports directly allocated to the non-material sphere consist only of material goods.

- 2.19 Net exports of non-material services both for 1967 and 1963, shown in tables 1.3 and 1.9, respectively, were computed as the difference between the exports of non-material services shown in a special column of quadrant II of the input/output tables and the value of "transferred imports" of non-material services shown in quadrant III of the input/output tables. In other words, due to the lack of data, directly allocated imports of non-material services were taken to be equal to zero. In calculations for 1967, it was arbitrarily assumed that the imports "transferred" to the dummy industry "business travel expenditures" consist exclusively of non-material services.
- 2.20 Though exports in MPS are defined to exclude purchases of goods by non-residents and imports are defined to exclude purchases of goods by residents abroad, the difference in treatment of those items has not been taken into account in the conversion tables. Since, however, corresponding adjustments have not been made for the final consumption expenditures either, the differences in question to a considerable extent cancel each other.
- Gross output of non-material services shown in table 1.4 for 1963 was computed as follows: "total output" of non-material services in the condense input/output table, including output of the "rest of the world industry" and stock revaluation adjustment (\$276.8 billion) is reduced by the amount of "transferred imports" of non-material services absorbed by non-material activities (\$1.0 billion); the stock revaluation adjustment was included in order to ensure valuation of the global product according to the methods recommended in MPS, but that item could have been shown separately in the conversion table. Intermediate consumption by the non-material sphere for 1963 (see table 1.4) was computed as follows: "total intermediate consumption by non-material activities shown in the condensed input/output table was reduced by imports "transferred to non-material industries" as well as by secondary output of non-material services "transferred into finance, insurance, real estate ...". The residual was then increased by the intermediate input of non-material subsidiary activities of the material sphere A similar procedure was used for the computation of gross output and intermediate consumption of the non-material sphere for 1967. Thus, gross output of non-material activities shown in table 1.10 was computed as follows: the "total output" of non-material activities including the output of the rest of world industry and the stock revaluation adjustment shown in the condensed input/output table (\$380.4 billion) was reduced by imports of nonmaterial services transferred into non-material activities (\$1.8 billion). Intermediate consumption of non-material industries was calculated as follows: the sum of intermediate input by non-material activities shown in the condense input/output table(\$104.7 billion) was increased by intermediate input into non-material subsidiary activities of the material sphere shown in table 1.7 (\$5.7 billion) and reduced by "transferred imports" of non-material services into non-material industries (\$1.8 billion) as well as by the amount of the secondary output of non-material services transferred from the material

sphere into the non-material sphere (see table 1.7, \$21.6 billion).

2.22 Some additional comments should be made concerning the stock revaluation adjustment which is introduced in the conversion tables. Though the official description of MPS, contained in <a href="Basic Principles of the System of Balances of the National Economy">Basic Principles of the System of Balances of the National Economy</a> does not contain any specific references to the handling of this item, the assumption that in the majority of the countries using MPS capital formation in stocks represents the change in the value of stocks rather than the value of the change of stocks is believed to be an accurate one. It should be noted, however, that in some cases where the appropriate government bodies of countries with centrally planned economies make a decision to revalue stocks of goods at the beginning of the year, the appropriate adjustment is also included in the capital formation flows recorded in MPS.

		Total output (a + h)	E	59929	20570	458669	31405	85314	120612	375.0	59627	153533	104822	16241	5622	3624	•	o	4183	-505	6095	5295	1142742				
_		Total	9	7506	963	199689	12889	70442	88561	2584	22470	79517	99536	12593		ĸ	-3477	-14318	4183	-505	126	5244	590399				
(million dollars)			acote (e)	\$	60	3942	875	18866	101	117	1155	1718	31342	137		749	ĸ	-					39062	1			
#1114en	4	11	110	-242	279	19784	377	5424	746	349	1761	2190	25877	12		8	2649		-643		191	5244	91119	1			
3	5	Exports, net	9	X012	536	16415	Я	N .	1739		ŝ	633	373			339	-12320	-14318	9029		8.		5812				
	7 4 8	Stocks	9	1075	-45	4188			325		152			-9		9	г П	•		-205			5329	1			
		Gross fired capital forma- tion	9	4		28026		46150	4859		1059	1225				-972	166						60508	1			
		Personal consump- tion	ê	1216	162	127554	11607		16/08	2118	15240	13751	41944	12429		Š.	7009		-1362		· <del>§</del>		375541		590389	_	
		Total inter- mediate output	3	50892	19607	258980	18516	14872	32051	1174	72575	74016	5346	5648	1793	5573	3477	14318			4682	51	532717	19636 50324	2272	98	1142742
		To de la	52			2312	2	~	21		ĸ	198	ध		62	-			,				2547	1	2748	_	233
		Un- olassi- ried and disore-	81	104	8	-43	330	1002	&		820	354	-156	•	*	4	2	%			-230		5062		3544		60
		root relus- tion ad- just-	17																					Ī	Š		ğ
	_	the world	2	<u> </u>						_								924					924	I	3259		43.63
в, 1963	L	frans- ferred imports	2		···																		٥		╽		•
ed State		Direct. 13. allo- cated imports	77																				0				•
. Unit		Other indus	13			2462		•	'n		ц							336					3624		T		3624
put tabl		Dusiness travel, enter- teiment and gifts	12	150		2533			449	1000	3186		754					251					7793		T		133
input/out		Personal services and movie produc- tion	7	2	*	3424	164	63	1493		221	1256	8	109	127	11	15	•		-	189		7283	1884	7/06		18241
Condensed input/output table, United States, 1963	Commi-	- 10	10	£7.	4	2455	1148	1239	104	•	910	6964	5772	1207	161	145	87.				139		15499	1152	86231		104662
ble 1.1.		-	9012	581 2516	120	356	757 452	7358	1464	174	928	20236	2578	60	9181	3	130	23			â		4670#	0297	67678	-+-	153533
Table		Trans- in port and re storage, re and com- munica- at		8	ız.	4195	1165	1515	1550		5123	67.6	*	465	315	18	161	1017			124		_	168	+	+	59827 1
		Hotels	7			*	93	70	523		8	<b>3</b> 6	8		101	•					8		1363	8	+	-	3758
	1	retell retell trade.	9	172 1	13	669	2491	140	2417		3155	13896	<b>Z</b> v	1435	1166	276	%				<del></del>		31900	4997	203	8	120612
		Construe- tion	2	326	757	31662	318	24	72.55		<b>9</b>	4243	•	139	£	3				·			48292	1500	$\top$	╅	65314 1
		Electri-	4	ъ.	2700	939	5776	949	176		1525	32	323	ĸ	115	8		19			2814		16344	2837	17.00	8	200
	_	Haming Furing	ļ.	27978 7	14629	180734	1928	1067	13696	-	12596	16523	<b>5</b> ^	1230	77	2147	1933	9316			84	ĸ	289268	11250	147007	1269	458669
		Mining east quar- rying	~		1135	1669	8	800	8		919	2925	<u> </u>	4	Q	8		1990			-			17 gg			2020
		Agricul- ture, hunting, forestry and fishing	-	18904	128	1000	559	242	1834		1252	96 S	Ř	82	50	410	512	2					35926	<b>200</b>	27437	+	59929
			98		۹.۵	4.0	4 0	4.0	<b>4.</b> 0	4.0	# A 60	<b>6</b> A	9,0	ដ	12 & b	13 a	7	£.	16 a	17 .	91	19 a	-	-	-	-+-	7
				Agriculture, hunting, forestry and flabing	Mining and quarrying	Mamafaoturing	Electricity, gas and water	Construction	Wholesale and retail trade, and restaurants	Hotels	Transport and storage and communication	Finance, insurance, real estate and business services	Community, social and personal services, excluding material services		Business travel, estertainments and gifts		Directly allocated imports	Transferred imports	Rest of the world	Stock revaluation adjustment	Unclassified and discrepancy		Total intermediate consumption	including transfers Consumption of fixed	Value added, net		Total input

Table 1.2. Derivation of net material product from data on value-added, United States, 1963

		Gross national product	Consumption of fixed assets	Net national product (1-2)	Value-added in the non- material sphere	Value of non- material ser- vices consu- sumed in the material sphere	Business travel expenses in the material sphere	Net material product (3-4+5+6)
griculture, hunting,	Code	1	2		4	5	6	7
forestry and fishing	1	21,487	4050	17437		3819	79	21335
fining and quarrying	2	10944	2983	7961		2927	101	10989
ianufacturing	3	158257	11250	147007		17213	2886	167106
Electricity, gas and water	4	14609	2837	11772		3992	115	15879
Construction	5	37022	1500	35522		4248	513	40263
Sholesale and retail trade, and restaurant	6	87248	4997	82251		13861	1188	97300
Prensport and storage, and communication	8	39270	4871	34399		3238	315	37952
Material personal services and movie production I. Material sphere	n	10958 379795	1884 34372	9074 345423		1645 50943	127 5324	10846 401690
Notels	7	2375	600	1775	2775			
Pinance, insurance, real estate and business services Community social and	9	96169	14200	81969	81969			
personal services excluding material services	10	89383	1152	88231	88231			
Rest of the world	16	325 <del>9</del>		3259	3259			
Stock revaluation adjustment	17	-502		-502	-502			
Inclassified and discrepancy	18	3544		3544	3544			
development	19	2748		2748	2748			
Secondary production	D+2*	13618	2312	11306	11306			
I. Mon-material spher		210594	18264	192330	192330			
II. Total (1+11)		590389	52636	537753	192330	50943	5324	401690

Table 1.3. Derivation of net meterial product from data on final uses, United States, 1963 (million dollars)

Consump- Material
<del></del>
7
29628
22636
52636 29628

Table  $1 \cdot h$ . Derivation of net material product from data on gross output and intermediate consumption, United States, 1963

3.					000		(milli	(million dollars)
Categories of the <b>SNA</b>	of	Gross output of the non- material sphere	Intermedia- te consump- tion in the Consumption non-material non-material sphere services in material sph	of the ere	Consumption of travel travel fixed assets in the lin the material sphere sphere	Business travel expenses in the material sphere	Cate	Categories of the MPS
	1	2	3	†7	5	9	7	
Gross output	1100377	275793					824584	Global product (1-2)
Intermediate consumption	509988		65199	50943	34372	5324	422894	Intermediate consumption including depreciation (1-3-4+5-6)
Gross national product	590389	275793	65199	50943	34372	5324	401690	Net material product (1-2+3+4-5+6)
		***************************************				<u> </u>		

Table 1.5. Condensed input fourput table, United States, 1967

																	•								ŀ
	Agriculture, fure, foresting, forestry and fishing	Maria end quar- cylar	Manufao- turing	Electri- oity, Const gas and tion water	Construc- tion	Mole- sale and restail trade, trade, rest	Botelle	Frans- port and storage, and com- mendos- tion	Plantos, Instru- rance, real retate and weizes	J . • Ma .	Material personal marricos and morte produc-		Office of the state of the stat	Direct.  In fract.  Anilo- ferr cated imports	Rest Of ferred the imports world	Stook re- rion tion divet-	Un- olassi- fied and discre- pancy	7 6 4 5	Personal consump- tion	3.	-1 3 1	<b>1</b>	Part of the state	Pur- chases of state sand local govern-	Total Cath
Code	H	2		H	-		H		900	1000	4	+	Ħ	17	Ħ	H	Ħ	3	9	3	3	3	+	+	<del> </del>
Agriculture, hunting, forestry and flashing 1	~~		31390		263	9 <del>7</del> 7	-	4	2876	324		196					4	53797	6152	-	1162		-1430	911	
Mining and quarrying 2	138	1238	17280	3557	8. 8.	6	4	ĸ	251	ន	~						•	23460	138		6,39	<b>8</b> L	<u></u>	~	1455 24913
Mamilacturing 3	1198	2334	213,886	661	37534	8614	357	5352	17039	4036	6269	3600	3639				<b>§</b>	312507	154939	47796	9618	23776	36718	5282 2	278329 590836
Electricity, gas		3	2009	7703	74	2415	227	61.7	1037	1576	231						358	21397	13935			74	¥	1598	15951 37348
	93	572	2560	1314	. <b>R</b>	256	139	1940	7553	96.	8						1534	17697		54330		35	4928	26302	95583 103280
Molesale and retail trade, and restaurants 6	2936	335	16109	922	8225	3382	133	1679	3337	1136	2011	748	н				22	42551	109367	6544	ĝ	2615	1397	2	120815 163366 3516 5415
fransport and storage and communication 8	1362	424	16390	873	2984	3736	174	7089	8541	1273	427	4629	7.5				6	48085	20456	1924	228	4047	4139	1691	32491 80576
Finance, insurance, real estate and business services 9	4527	ž.	28945	759	6989	19548	0111	4653	6060£	5538	2120		~				198	106766	100725	2104	7	1125	3036	2572	109561 218347
Community, social and personal mer- vices, excluding naterial services 10	8	12	\$4	39		43	×	316	198	963	5	236					4	3649	49224			Ħ	2314	2471	54020 57669
Material personal services and movie 11	568	\$	2140	011	£	2221	358	1790	1496	929	2258	32	9				24	11837	16117		3,	321	172		18790 30627
Dusiness travel, entertainment and gifts	85	130	4123	136	<b>%</b>	5045	138	Ş,	5902	328	Š						<b>3</b> 2	11206							
Other dummy indus- tries (office supplies, scrap) 13		131	2911	*	\$	38	21	159	649	168	22			-			3	4750	1286	-2921	-121	8	-128	1152	-152
	*		2115		101	4		1048	16	9	3						323	3826	9870	658	8	-18221	3964	~	-3826
Fransferred imports 15		2137	1,507.1	£	*****			1363	8			356	<u>8</u>		1763	<u>r</u>		22570			<u>.                                    </u>	-22570	,	<u>-</u>	-22570
Mest of the world 16													-,						1,5047			9168			9590
Stock revaluation 17																					-1843				-1843 -1843
Unclassified and discrepancy 18	1		78	2586	34	1647	6	521	1723	52	162		7	-	-	_	ů	6639	9295		7	8.	35501	46471	87688 94527
Fotal intermediate A	36736	11421	361840	18142	57705	45100	5703	27324	39166	17462	11111	11205	4598	1	9 1763		1584	694856	099069	110443	30034	5132 90004		96334 7	795387 1490243
Consumption of fixed assets	38,	7577	16575	3590	1900	ξ,	8,	9299	17500	1776	1355							65206							
Value Added, net B		77.2 25.2		15557	43675	110169	1912	43207	121681	38431	14620	-	П		4517	$\sqcup$	-1843 90933	714336	200	_					
	Ľ		4			777.77	84.08	2000	27.5000	-27,74		,,,,,,		•	-	_		.,							

Table 1.6. Transfers of secondary output, United States, 1967

		Table 1, 6.	Tren	ifers of #4	ders of secondary output, united States, 170	it, united	otates, tyol		( <b>m</b> )	(mfllfom dollars)	
Industries Indu	Industries to	Agriculture,	Maring	Menurac-	Klectricity, Construc-	Construc-	Wholesale	Hotels	Transport	Finance,	Community,
		hunting,	_		gas and	tion	and re-		and sto-	insurance	social and
out-	dary output	forestry	quarrying		water		tail tra-		~	real estate	personal
	was trans-						de, and			and business	services
ferred	ferred	fishing					restan-	-	cation	services	:
2.4	Code	1	2	3	ħ	5	9	7	<b>©</b>	9	10
Agriculture, hunting, forestry and fishing	18°			1401					39	2325	<b>4</b> 5
Mining and quarrying	ing 2			1064	808		6	<del></del>		236	
Manufacturing	~	6	179		8.		4137		<del> ,</del>	12256	
Electricity, gas and mater	at pa		80	82						103	
Construction	5										
Wholesale and retail trade, and restaurants	tt. erts 6									1392	
Hotels	7				7					P.18	
Transport and storage, and communication	<b>366,</b> 8				<i>#</i>		52			#09#	
Finance, insurance, real estate and business services	, sat- 9				н					おなれ	
Community, social personal services	and 10									152	
Material, personal services and movie production	#									699	
Unclassified and discrepancy	81			7	2582		3546		398	11.78	
TOTAL		6	<b>208</b>	2554	2879	•	57.17	•	154	26807	45
								•	•		

Table 1.7. Cost structure of secondary output of non-material services transferred from industries of the material sphere to industries of non-material sphere, United States, 1967

								(millic	(million dollars)
Industries which secondary of the ori- gin of the in-transferred put to the secondary output	Agriculture, hunting, fo- restry and flahing	Mining and quarrying	Manufac- turing	Electricity gas and water	Construc- tion	Wholesale and re- tail tra- de, and restau- rents	Transport and com- munica- tion	Material personal services	TOIAL
Agriculture, hunting, forestry and fishing	7	1	Ot	1		1	मृत		<b>13</b>
Mining and quarrying	•	ı	•	í	ı	ı	ı	ı	•
Manufacturing	8	ĸ	351	a	•	ĸ	87	<b>.</b> #	545
Electricity, gas and water	य	•	2		•	1	₹.	5	715
Construction	1		1	ı	ı	ı	1	ı	1
Wholesale and retail trade, and restaurants	25	લ	o <del>ग</del> ्र	ŧ		Ø	84	ĸ	520
Transport and storage, and communication	2	Z.	281	a		9	8	91	0 <b>5</b> 4
Material services	<u>r</u>	80	523	m	1	п	178	ទ	824
Total material input	9 <b>4</b> 8	91	1405	2	•	23	184	잞	22.72
Mon-material services	380	煮	1898	17	. •	343	754	102	3528
Intermediate consumption	989	ß	3303	<b>5</b> #	1	366	1235	<del>1</del> 2.	27 <b>4</b> 0
Value added	1485	191	7828	\$	ı	897	2945	99 <del>1</del>	13851
Consumption of fixed assets	412	23	1125	91	1	621	<b>#2</b>	8	1994
Gross output	2325	236	12256	103	•	1392	4604	699	21,985
Expenditures on business trips (estimates)	∞	v	165	9		011	쟠	13	350

Table 1.8. Derivation of net material product from data on value-added, United States, 1967

		Gross national product	Consumption of fixed assets	Met national product (1-2)	Value-added in the non- material sphere	Value of non- material ser- vices consumed in the mate- rial sphere	Business travel expenses in the material sphere	(million dollar Net material product (3-4+5+6)
	Code	1	2	3.	4	5	6	7
Agriculture, hunting, forestry and fishing	1	22683	4386	18297		4348	87	22732
Mining and quarrying	2	13308	3577	9731	İ	3583	114	13428
Manufacturing	3	220043	16575	203468	ł	27570	3958	234996
Electricity, gas and water	lş.	19127	3590	15537		3344	130	19011
Construction	5	45575	1900	43675		6400	695	50770
Wholesale and retail trade, and restaurants	6	117240	7071	110169		21265	1935	133369
Transport and storage, and communication	8	49883	6676	43207		14749	460	48416
Material personal services and movie production	11	1 <i>59</i> 75	1355	14620		2245	292	17157
I. Material sphere	. <u>.</u>	503834	45130	458704		73504	7671	539879
Hotels	7	2712	800	1912	1912			
Finance, insurance, real estate and business services	9	139181	17500	121681	121681			
Community, social and personal services excluding material services	10	40207	1776	38431	38431			
Rest of the world	16	4517		4517	4517			
Revaluation stock adjustment	17	-1843		-1843	-1843			
Unclassified and discrepancy	18	90933		90933	90933			
Secondary production of non-material services	D+ <b>F</b>	15845	1994	13851	13851			
II. Non-material spher	re	291552	22070	269482	2 <del>694</del> 82			
III. Total (1+11)		795386	67200	728186	269482	73504	7671	539879

Table 1.9. Derivation of net material product from data on final uses, United States, 1967 (million dollars)

Categories of the MPS		Personal and other final consumption (1-2+4+5+6)		Met fixed capital 41139 formation (1-2-3)	Capital formation	Exports minus -591 imports (1-2-7)	Met material product 539879 (1-2-3+4+5+6-7-8)
రే	6		487454	41139	77811	-591	539879
Reva- lustion stock adjust- ment	8				-1843		-1843
Net factor income from abroad	7					4517	4517
Material inputs in business travel expenses	9		9205	a			3205
Consump- tion of fixed assets in the non-ma- terial sphere	5		22070				ezoro
Material inputs in the non- material sphere	7		37855				37855
Consumption of flor of flored assets	3			67200		_	67200
Final expen- ditures on non- material services	2		251454	2104		9021	254764
ed.	1		669778	110443	10034	5132	795387
Categories of the SWA		Final consumption expenditures of residential house-	holds and other final consumption	Gross fixed capital formation	Capital formation in stocks	Exports minus imports	Gross national product

Table 1,10. Derivation of net material product from data on gross output and intermediate

consumption, United States, 1967

(Million dollars)

Categories of the MPS		Global product (1-2)	Intermediate consumption including depreciation(1-3-4+5-6)	Net material product (1-2+3+4-5+6)
Categ	7	1051672	511793	539879
Business travel expenses in the material	9		1671	1671
Consumption of fixed assets in the ma- terial sphere	5		45130	45130
Consumption of non-material services in the material sphere	†		73504	73504
Intermediate consumption in the nonmaterial sphere	3	y Arthur - Art Ar Tarre (A)A	87059	87059
Gross output of the non- material sphere	5	378612		378612
of	1	1430284	634897	795387
Categories of the SNA		Gross output	Intermediate consumption	Gross national product

### 2. United Kingdom of Great Britain and Northern Ireland

#### Sources of data

- 2.23 The basic sources of data used for derivation of net material product of the United Kingdom for the years 1963, 1971 and 1972 are Input-Output Tables for the United Kingdom, 1963 3/ and National Income and Expenditures, 1964-1974 4/. The former source was used in compiling the condensed input/output tables, from which data on various adjustments needed for the conversion were obtained.
- 2.24 Supplementary data for 1963 on value-added for selected material services 5/ which in the original input/output table are shown together with non-material services in the category "Miscellaneous services", as well as data for 1971 on capital consumption classified by industries of the material and non-material spheres, were furnished by the Central Statistical Office of the United Kingdom. The estimates of value-added of selected material services for 1971 and 1972 were obtained by extrapolation. It proved, however, impossible to separate output of cafés and restaurants from hotels shown under "miscellaneous services" because nearly all hotels make a single charge for room and breakfast, while many of them make a combined charge for accommodation and full board.
- 2.25 It also proved to be impossible to obtain data on business travel expenditures and on expenditures on cultural, medical and similar services provided by enterprises to employees. It is believed that any rough estimates which could be made of those items would be less accurate than leaving them out.

<sup>3/</sup> Studies of Official Statistics (Her Majesty's Stationery Office, 1971 and 1972).

<sup>4/</sup> Her Majesty's Stationery Office, 1975.

<sup>5/</sup> Includes repair, dyeing, cleaning, laundries, movie production etc.

#### General remarks on the procedure used

- 2.26 The procedure employed for the derivation of net material product of /United Kingdom is essentially consistent with the general methodology outlined above (see chapter I). At the same time, it should be noted that it was thought to be desirable to subdivide it into two stages:
- (a) In the first stage, calculations of net material product were made within the framework of three conversion tables relying on various pieces of data contained in the input/output tables i.e., value-added data, final demand data, and gross output and intermediate consumption data.
- (b) In the second stage, account was taken of the supplementary data on value-added of selected material services furnished by the Central Statistical Office of the United Kingdom.
- 2.27 This procedure was chosen to ensure a strict consistency among the various adjustments included in the conversion tables and the estimates of NMP derived with their help. Extracting the data on all adjustments included in the conversion tables from input/output tables facilitated achieving consistency between corresponding items in the different conversion tables. For example, value of gross output of non-material services, shown in table 2.4, is equal to the sum of the following items: final expenditures on non-material services (table 2.3), intermediate input of non-material services by the material sphere (table 2.2), and intermediate input of non-material services by the units of non-material sphere (table 2.1). Introducing supplementary data into the conversion tables inevitably would have upset this consistency.
- 2.28 All adjustments included in the conversion tables are essentially standard; they are associated with differences in the definition of the production boundaries in SNA and MPS; as was indicated above, it proved to be impossible to obtain data needed to take into account differences in treatment of business travel expenditures and of expenditures on cultural, recreational etc. services provided by enterprises to their employees free of charge and charged to intermediate input.

## Derivation of GDP in the conversion tables

2.29 Some explanatory comments should be made concerning the derivation of gross domestic product and net domestic product in the conversion tables from input/output data. In some cases, the data on certain components of GDP can easily be identified from the condensed input/output tables, whereas in other cases, some regrouping of data is needed. In this connexion, some comments should be first of all made concerning the treatment of indirect taxes in the original input/output tables, and on the resulting procedure in the computation of GDP in the conversion tables. In the original input/output tables of the United Kingdom, indirect taxes

less subsidies are allocated among intermediate and final users in a separate row of the table, in quadrants III and IV, respectively. Thus, net indirect taxes are allocated to the industries which purchase intermediate goods and services, while net indirect taxes on final products are allocated to final uses - i.e., final consumption etc. This means that the value-added data recorded in quadrant III of the input/output table do not include net indirect taxes levied on final products. These indirect taxes should be added in order to obtain GDP at purchasers' prices. Besides, it is essential for derivation of net material product to allocate those taxes to the respective industries of origin - at least at the level of the material and non-material spheres.

- 2.30 Data on net indirect taxes on final product for 1963 were reclassified by industry of origin by the Central Statistical Office of the United Kingdom. This made it possible to reallocate indirect taxes levied on final users from the final-demand side to the supply side of the table i.e., from quadrant IV to quadrant III. This, of course, led to corresponding changes in the entries relating to gross output of each industry and its disposition among various purposes. The condensed input/output table for 1963 includes all the above-mentioned changes and therefore, all categories of GDP in the conversion tables can easily be identified.
- 2.31 This is not the case, however, for 1971 and 1972. The original form of the input/output tables for those years was kept without any changes. The breakdown of net indirect taxes by industry of origin was made for 1971 by the Central Statistical Office of the United Kingdom; similar data for 1972 were estimated by extrapolation. The data on net indirect taxes by industries have made it possible to derive GDP in the conversion tables at purchasers' prices. They are practically identical to those published in the Yearbook of National Accounts Statistics. In other words, with some minor exceptions, they are defined in accordance with the present SNA.

#### Derivation of net material product

- 2.32 As was indicated above, the adjustments included in the conversion tables are consistent with the general methodology outlined in chapter I. The magnitudes of the adjustments can be easily identified in the condensed input/output tables. In some cases, however, additional explanatory notes with regard to the procedure employed to derive certain items are given below.
- 2.33 Since net material product is computed on a net basis i.e., after deduction of consumption of fixed assets efforts have been undertaken to separate depreciation allowances from the gross operating surplus shown in the original input/output table. The information contained in National Income and Expenditures, 1964-1974 was used to obtain estimates of the consumption of fixed assets classified by industries.

- 2.34 The value of non-material services consumed by the material sphere from domestic production was supplemented by the value of imported non-material services purchased by industries producing material goods (see table 2.6) because in the input/output tables, entries relating to the disposition of domestic goods and services are shown separately from data on the disposition of imports. The data on consumption of non-material services from domestic sources can be easily identified in the condensed input/output tables. As for the consumption of imported non-material services, special efforts were made to subdivide "directly allocated imports" to each sector into material and non-material components. The procedure which was used for that purpose is described below.
- (a) The figures on net exports of non-material services furnished by the Central Statistical Office of the United Kingdom were used as a starting point.
- (b) The figures on exports of non-material services were identified from the input/output tables, and this made it possible to estimate imports of non-material services (as the difference between net exports of non-material services and exports of non-material services).
- (c) Imports of non-material services were then subdivided into intermediate and final components. The data from "Commodity analysis of imports" contained in <u>Input-Output Tables for the United Kingdom, 1963</u> were used for that purpose; intermediate input of imported non-material services was further broken down into input in the material sphere and input in the non-material sphere.
- (d) The value of imported non-material services consumed by the material sphere was next distributed among its individual industries. The assumption used for the purpose was that values of non-material imported services consumed by individual industries are proportional to the totals of imports to those industries. It is believed that this assumption can not lead to serious distortions of the estimates of the NMP; in fact, it can only slightly distort the breakdown of NMP by industries.
- 2.35 The procedure outlined above was employed only for the calculations for 1971 and 1972. For 1963, owing to the lack of data on net exports of non-material services, imports of non-material services were taken to be equal to zero.
- 2.36 In table 2.8, gross output of non-material services was taken to be equal to the sum of the following items:
- (a) Gross output of non-material services shown in the condensed input/output table;
  - (b) The corresponding amount of net indirect taxes levied on final

non-material services. The data on (b) are not shown explicitly in the input/output table for 1971 because, as was indicated above, they are recorded in quadrant IV, where they are classified by final-use categories rather than by industry of origin; they are reclassified, however, by the Central Statistical Office.

The same procedure was employed for 1972 but not for 1963; in the latter case, the condensed input/output table was reorganized in a special way, so that all net indirect taxes are shown in quadrant III.

- 2.37 Final consumption expenditure of households on non-material services in table 2.11 was taken to be equal to the sum of the following items:
- (a) Value of non-material services purchased by households from domestic producers. (The data on this item can easily be identified in the condensed input/output table);
- (b) The corresponding part of indirect taxes levied on non-material services;
- (c) Imports of final non-material services purchased by households. The data on (b) and (c) are not shown explicitly in the condensed input/output table for 1971. They were obtained with the help of the calculations described above. The same procedure was applied for 1972.
- 2.38 As was indicated above, the estimates of NMP derived in the conversion tables must be adjusted by the value-added in selected material services. Thus, final estimates of net material product of the United Kingdom, in millions of pounds sterling, can be presented as follows:

1963	21 434 <u>a</u> /	<b>+</b> 753	=	22 187
1971	37 768 <u>a</u> /	+ 1605	=	39 373
1972	41 791 <u>a</u> /	+ 1705	=	43 496

a/ Including transfer costs of transactions in land and buildings incurred by the industries of the material sphere: for 1963 - £5 million; 1971 - £30 million; 1972 - £42 million.

Table 2.1. Condensed input/output table, United Kingdom, 1963

															(£ mi	(£ million)	
	Agricul-	-[3			Gas, electri-		Trans- port and	Mis- cella-	Public admi-	Total	Current expenditures		naldemai Gross domestic capital formation	deman domestic ital	d Exports	Total	Total
	forestry and fishing	Aini and quer	Manufac- turing	Construc- tion	city and water supply	Trade	commu- nica- tion	neous servi- ces	nistra- tion, etc.	inter- mediate output	Consumers	lic no- ies	Fixed	Stocks	•		output (a+g)
Code		2	3	7	2	9	7	8	- 9	В	þ	O	P	e	Ţ	80	4
Agriculture, forestry and fishing			443		г		4	30		458	1001	8	6	56	49	1175	1633
Mining and quarrying	8	- 2	343	65	346	~	35	3		800	216	32	22	-35	51	586	1086
Manufacturing	5 532	188	4547	1049	185	308	481	733		8023	6964	1318	2025	189	3872	14368	22391
Construction	4 30	22	8		4	53	25	34		257	416	586	2210	21	15	2948	3205
Gas, electricity and water supply	20	· ···-	386	11		82	88	66		099	019	75	153	4	9	908	1568
Trade	911 9	5 17	628	57	16		4	25		906	3800	18	172		265	4518	5218
Transport and communication	7 28	94	767	45		540		177		1699	111	211	89	п	761	1752	3451
Miscellaneous services	8 92	25	1056	116	46	313	99			1714	2898	524	197		435	4054	5768
Public administration, domestic services, ownerships of dwellings				***					· · · · · · · · ·		000	7220					Ç.
	823	329	9530	1543	999	1299	089	1081		14511	18168	4454	/BS	¥ Š	2454	4220	46.60
Imports B	B 133	11 11	2721	35	17	39	587	5		3653	1586	184	237	15	273	2203	5046
Sales by final demand C		2	122	12		22		, 02		179	263	-353	-177	ì	88	-179	,
Total intermediate and final consumption D	959	340	11133	1450	683	1360	1267	1151		18343	20017	5184	4916	219	5815	36151	54494
Taxes on expenditures, net	-280	13	2317	24	50	689	-104	019		3379							
Consumption of fixed F assets	120	48	929	57	284	130	370	325	350	2320		<del></del>			·		
Income from employ- ment, gross profits and other trading income 6	834	685	8305	1674	551	3039	1918	3622	3878	24506			-	·			
Total input H (D+E+F+G)	1633	1086	22391	3205	1568	5218	3451	5768	4228	48548							

(£ million) Table 2.2. Derivation of net material product from data on value added, United Kingdom, 1963

Code         1         2         3         4         5         6           and fishing         1         2         3         4         5         6           Adriculture, forestry         1         6ft         120         554         92         646           Mining and quarrying         2         746         48         698         1052         1055         11678           Manufacturing         3         11258         636         10622         1056         11678         11678           Construction         4         1755         57         1698         1166         46         47         1178         11814         46         647         647           Trade         3858         130         3728         46         46         647         1814         46         66         1880           Trade         3858         130         1814         66         1880         1880           Miscellaneous services         4617         325         4292         4292         4292         4292         4292           Public administration         4617         325         4292         4292         4292         4292         4292		Gross Comestic product	Consumption of fixed assets	Net Domestic product (1-2)	Value-added in the non- material sphere	Value of non- material services consumed in the material sphere	Net material product (3-4+5)
y         1         554         92         25           2         746         48         698         25         1056         1056         1156	Code	H	5	3	7	5	9
2       746       48       698       25         3       11258       636       10622       1056       1         4       1755       57       1698       116       116         5       885       284       601       46       46         6       3858       130       3728       313       5         8       21360       1645       19715       4292       4292       1714       66         8       4617       325       4292 <td>, forestry</td> <td>ηL9</td> <td>120</td> <td>554</td> <td></td> <td>92</td> <td>949</td>	, forestry	ηL9	120	554		92	949
11256 636 10622 1056 116 116 116 116 116 116 116 116 116 1		947	817	969		25	723
μ         1755         57         1698         116           5         885         284         601         μ6           6         3858         284         601         μ6           7         2184         370         1814         66           8         14617         325         19715         1714         66           8         14617         325         4292         1714         2           8         9         4228         3878         8170         1714         8           8         675         8170         8170         1714         6           8         33205         2320         27885         8170         1714         6		11258	989	10622		1056	11678
5       885       284       601       46         6       3858       130       3728       313         7       2184       370       1814       66         8       4617       325       4292       4292       1714       2         8 9       4228       350       3878       3878       3878       3878       3878       370       1714       6         7       8320       2320       27885       8170       1714       6		1755	57	1698		116	1814
6 3858 130 3728 313 7 2184 370 1814 66 8 14617 325 19715 1714 2 8 9 4228 350 3878 3878 170 9 4228 350 27885 8170 1714 6		885	182	601		94	£49
7 2184 370 1814 66 21360 1645 19715 1714 6 8 4617 325 4292 4292 629 8 9 4228 350 3878 3878 8170 1714 6 30205 2320 27885 8170 1714 6		3858	130	3728		313	<b>Τ</b> ηΟή
21360 1645 19715 1714  8 4617 325 4292 4292  8 9 4228 350 3878 3878  re 8845 675 8170 8170  30205 2320 27885 1714		2184	370	1814		99	1880
8 4617 325 4292 4292 g 9 4228 350 3878 3878 re 8845 675 8170 8170 30205 2320 27885 8170 1714	1	21360	1645	19715		1714	21429
: 9		1,617	325	4292	4292		
aterial sphere 8845 675 8170 8170 (I + II) 30205 2320 27885 8170 1714		4228	350	3878	3878		
(1+11) 30205 2320 27885 8170 $1714$		8845	675	8170	8170		
		30205	2320	27885	8170	ητĴτ	21429

Table 2.3. Derivation of net material product from data on final uses, United Kingdom, 1963 (£ million)

Categories of the SNA		Final expenditures on material services	Consumption of fixed assets	Material inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere		Categories of the MPS
	П	2	3	†	5	9	
Final consumption ex- penditures of residen- tial households	20017	0654				15627	Personal consumption (1-2)
Other final consumption	5184	326\$		1351	675	3750	Other final consumption (1-2+4+5)
Gross fixed capital formation	9164	197	2320			2399	Net fixed capital formation (1-2-3)
Capital formation in stocks	219					219	Capital formation in stock
Exports minus imports	-131	435				-566	Exports minus imports (1-2)
Gross domestic product	30205	8282	2320	1351	675	21429	Net material product (1-2-3+4+5)

Table 2,4. Derivation of net material product from data on gross output and intermediate

consumption, United Kingdom, 1963

(f million)

		Gross output of the non- material sphere	Inter-diate consumption in the nonmaterial sphere	Inter- Consumption of diste con- non-material sumption services in the in the non-material sphere sphere	Consumption of fixed assets in the mate- rial sphere		Categories of the MPS
П		2	3	4	5	9	
9666 8498	9666					38552	Global product (1-2)
18343			1151	ողոր	1645	17123	Intermediate material comsumption including depreciation (1-3*4+5)
30205 9996	9666		<b>1</b> 511	1714	1645	21429	Net material product $(1-2+3+\mu-5)$

Table 2.5. Condensed input/optput table, United Kingdom, 1971

	-						-						£4 €4	n 8 1	д в п	ಶ	(f million)	_
	Aer					Gas, electri-			Mis- cella-	Public admi-	Total	Current expenditures	1		Gross domestic capital formation		Total	Total
	fore and figh	tt g	Mining and quarrying	Manufac-	Construc-	city and water supply	Trade	<del></del> ,	neous servi-	nistra- tion, etc.	inter- mediate output	Consumers	Public autho- rities	Fixed	Stocks	_		output (a+g)
ပိ	Code	Н	2	П	7	2	H	Н	8	6	83	م		ъ	┯╂	J	8	┦
Agriculture, forestry and fishing				1233	-	N		7	12		1254	1043	23	27		106	1264	
Mining and quarrying	8	_	-	321	150	440	-	-	7		126	152	43	14	36	54	599	
Manufacturing	× 6	 %	212	10244	2139	331	685	632	1456		16608	9251	1927	3700	7	8429	23314	39922
Construction	4	53	8	198		102	4	12	38		503	835	306	4507	13	58	5719	6222
Gas, electricity and water supply	2	12	41	199	ដ	23	231	53	141	_	1208	1323	148	21.7		4	1692	2900
Trade	9	6	11	1283	59	17		67			1497	5289	150	69		475	6003	
Transport and communication	-		58	1516	128	6	823	66	520		3276	1300	178	290	7	1914	3681	6957
Miscellaneous services		901	48	2875	232	190	272	149			3872	4115	1489	596		1362	7563	11435
Public administration, domestic services, ownerships of dwellings	6	<del></del>				<u> </u>						3434	6072				9506	9056
Sub-total	A 12	1238	401	18337	2729	1175	2051	1040	2168		29139	26742	10336	9776	121	12402	59041	88180
Imports	FQ 7	132	56	5452	143	63	35	1541	290	-	7952	2580	331	101	-10		3912	11864
Sales by final demand	C	2	4	321	82	8	20	36	16		427	664	-755	-515		179	-427	
Total intermediate and final consumption	D 13	1372	431	24110	2892	1246	2106	2617	2744	1	37518	29986	9912	9936	111	12581	62526	100044
Taxes on expenditures less subsidies	-7 EA	-231	64	692	285	93	503	99	664		2230	4895	441	243		64	5643	7873
Income from employ- ment, gross profits and other trading income	13	1377	725	15120	3045	1561	4891	500	8027	9506	48432							48432
Total input (D+3+F)	G 25	2518	1220	39922	6222	2900	7500	1269	11435	9506	98180	34861	10353	10179	E	12645	69189	156349

Derivation of net material product from data on value-added, United Kingdom, 1971 (g million) Net material (3-4+5+6)89 3356 3639 37738 37738 1081 22438 1137 5407 product imports vices consumed Value of nonmaterial serin the material sphere from 445 139 049 9 13 8 9 from domestic output 106 2875 232 190 272 149 3872 3872 8 Value-added in the nonmaterial 9236 3481 18017 Sphere domestic product (1-2) 926 628 19118 3104 938 9236 5131 33226 8481 18017 51243 Net Consumption of fixed 222 1,1,1 1242 911 663 225 868 3480 1025 1582 5062 assets 557 2 Gross domestie product 20360 3220 5356 4219 1178 772 9266 19599 1601 56305 36706 Miscellaneous services 8 10093 Code domestic services, ow-nerships of dwellings Public administration, Agriculture, forestry and fishing Mining and quarrying Gas, electricity and Table 2.6. I. Material sphere Transport and com-II. Non-material III. Total (1+II) Manufacturing sphere Construction water supply munication Trade

Table 2.7. Derivation of net material product from data on final uses, United Kingdom, 1971

(£ million)	Categories of the.	MPS					Personal consumption (1-2)		Other final consumption (1-2+4+5)	Net fixed capital formation (1-2-3)	Capital formation in stocks (1-2)	Exports minus imports (1-2)	Net material product (1-2-3+4+5)
	ຍ					9		25508	7118	4521	011	η81	37738
	Consumption of fixed assets	in the non-	material sphere			5			1582				1582
	Material inputs	in the	-uou	material	sphere	14			2744		<del></del>		71772
	Consump- tion of	fixed	assets			3				5062			5062
	Final expenditures	-uou uo	material	services		2		9373	7561	965	Н	300	17831
						1		34881	10353	10179	111	781	56305
	Categories of the	SNA					Final consumption expenditures of residen-	tial households	Other final consumption	Gross fixed capital formation	Capital formation in stocks	Exports minus imports	Gross domestic product

Table 2.8. Derivation of net material product from data on gross output and intermediate

consumption, United Kingdom, 1971

			consumbrio	consumption, unived hinguom, 19/1	, 1914 ,		(f million)
Categories of the SNA		Gross output of the non- material sphere	Intermediate consumption in the nonmaterial	Consumption of non-material services in the material sphere	Consumption of fixed assets in the ma- terial sphere	-	Categories of the MPS
	1	2	3	47	5	9	
Gross output	93823	22343				71480	Global product (1-2)
Intermediate consumption	37518		2744	4512	3480	33742	Intermediate material consumption including depreciation (1-3-4+5)
Gross domestic product	56305	22343	147Z	4512	3480	37738	Net material product (1-2+3+4-5)

Table 2.9. Condensed input output table, United Kingdom, 1972

															(£ mi	(E million)	
	Agricul-				Gas,		1	<del>}</del>	Public		Current		naldema Gross domestic capital	c	ਰ		Ē
	forestry and	Mining and	Marnifac-	Construc-	city and water	Trade	commu- nica-	neous servi-	admi- nistra- tion,	inter- mediate	Consumers rit	Public autho-	Fixed Sto	S S	sp.rodx:	T 88 3 0 T	output (a+g)
Code	11	2	7	4	5	+-+	Ħ	89	9	83	م	O	-	0	J	84	д
Agriculture, forestry and fishing			1462		8		<b>6</b> 0,	32		1504	1123	22	34	92	127	1382	2886
Mining and quarrying 2	4	-	376	156	466		2	п		1039	142	44	12	4	15	253	1292
Mamufacturing 3	896	318	10786	2501	348	651	670	1873		21611	10392	2146	3716	42	8735	25033	42948
Construction 4	54	73	173		96	35	97	49		492	1008	342	5324	-23	75	6726	7218
Gas, electricity and water supply 5	35	45	989	ដ	27	228	57	153		1252	1537	167	239		ĸ	1946	3198
Trade 6		16	1410	19	20		101	80		1670	5794	176	103	2	557	6632	8302
Transport and communication 7	100	34	1564	130	08	828	112	619		3467	1521	196	329	2	1965	4009	7476
Miscellaneous 8	105	52	2783	218	180	250	149		-	3737	4922	01/11	774		1489	8895	12632
Public administration, domestic services, ownerships of dwellings							·			1	5917	7062				10979	10979
Sub-total A	1320	539	19240	2887	1254	1992	1109	2735		31076	30356	11867	10531	66	13002	65855	96931
Imports	144	45	5993	179	89	42	1513	999		9650	3187	378	1293	-82		4776	13426
Sales by final demand C	5	4	337	22	6	21	40	18		453	788	-857	-565		181	-453	,
Total intermediate and final consumption D	1466	588	25570	3088	1331	2055	, 2992	3419		40179	54331	11388	11259	17	13183	70178	7250נו
Taxes on expenditures less subsidies	-162	121-	735	257	114	476	95	689		2073	5304	388	287	-	56	6035	8108
Income from employ- ment, gross profits and other trading	1582	α κ	2887		1752	5771	4729	. 80.7.8	10979	67975							97975
nput	┼	1292	42948	7218	3198	8302	7476	12632	10979	96931	39635	92211	11546	17	13239	76213	173144
7 3 7 7 7						1	1										

Table 2.10. Derivation of net material product from data on value-added, United Kingdom, 1972 (£ million)

							(C TITLE OF
	Gross domestic product	Consumption of fixed assets	Met domestic product	Value-added in the non- material	Value of non- material ser- vices consumed	non- ser- nsumed	Met material product (3-4+5+6)
	<b>.</b>		(1-2)	sphere	in the mate- rial sphere	ste- ere	<b>.</b>
					from do- mestic output	from	
Code	ı	2	3	4	5	9	7
Agriculture, forestry and fishing	1420	249	1/1		105	13	1289
Mining and quarrying 2	<del>j</del>	160	表		R	#	009
Menufacturing 3	21994	1372	20622		2783	523	23938
Construction h	4130	129	100t		278 872	16	4235
Gas, electricity and vater supply 5	1867	727	o <del>l</del> रा		180	~	1327
Trade	6247	254	5993		250	.4	6247
Transport and com-		987	3827		149	137	4113
I. Material sphere	9LT14	3,878	37298		27.27	77.	41749
Miscellaneous services (exclud- 6 ing material)	10632	792	0496	0486			
Public administra- tion, domestic services, owner-	CLASS						
II. Non-meterial	+	1871	ONL	107b0			
III. Total (I + II)	62787	57.49	57038	19740	37.37	714	41749

Table 2.11. Derivation of met material product from data on final uses, United Kingdom, 1972 (& million)

Categories of the		Final Consump expenditu- tion of res on ma- fixed terial assets	Consump- tion of fixed assets	Material inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere	<u></u>	Categories of the MPS
	7	2	3	#	5	9	
Final consumption expenditures of residential households	39635	10733				28902	Personal consumption (1-2)
Other final consumption	11776	8772		3419	1871	<b>\$</b> 53 <b>\$</b>	Other final consumption (1-2+4+5)
Gross fixed capital	11546	411	STA19			5023	Net fixed capital formation (1-2-5)
Capital formation in stocks	17					17	Capital formation in stocks
Exports minus imports	-187	9 <u>5</u>				-18t	Exports minus imports (1-2)
Gross domestic product	६८७४	20579	97th9	3419	1871	64714	<pre>Met material product (1-2-3+4+5)</pre>

Table 2,12. Derivation of net material product from data on gross output and intermediate

consumption, United Kingdom, 1972

(£ million)

Categories of the MPS	9	77936 Global product (1-2)	Intermediate material consumption including depreciation (1-3-4+5)	Net material product (1-2+3+4-5)
Consumption of fixed assets in the material sphere	5		3878	3878
Consumption of non-material services in the material pphere	†		<b>1</b> 45 <b>1</b>	<b>1</b> 544
Intermediate consumption in the nonmaterial sphere	3		3419	3419
Gross output of the non- material sphere	2	25030		25030
	1	102966	40179	62787
Categories of the SNA		Gross output	Intermediate consumption	Gross domestic product

#### 3. Japan

## Sources of data and their primary processing

- 2.39 The primary sources used in estimating MPS net material product of Japan are the input/output tables for 1965 and 1970 published in <u>Japan Statistical Yearbook</u>, 1968 and in the special publication, <u>Input-Output Tables</u>, 1970. The original input/output tables were reclassified and adjusted as far as possible to yield categories useful for MPS/SNA comparisons. They were condensed to the main divisions of the International Standard Industrial Classification of All Economic Activities. The condensed input/output tables are shown in tables 3.1 (for 1965) and 3.5 (for 1970).
- 2.40 Owing to the treatment of "consumption outside households" and import duties in the input/output tables, figures on value-added shown in them are not strictly identical to those published in the <u>Yearbook of National Accounts Statistics</u>. Therefore, efforts were undertaken to convert the data to SNA concepts as a first step. The procedure is described below.
- 2.41 Additional data on selected material services and on some other items were kindly furnished by the Office of Statistical Standards of Japan.
- 2.42 A number of items classified under "Community, social and personal services" in the input/output tables were shifted from that category to selected material services. 6/ On the other hand, some non-material services shown combined with material activities in the input/output tables were reallocated to industries providing non-material services, for example, sewage and other sanitary services shown in the input/output tables under "Electricity, gas, water supply and sanitary services." The shift in all cases was made outside the condensed input/output tables and, therefore, did not affect the estimates derived in the conversion tables. Those adjustments were introduced at the second stage of calculations where the figures on net material product computed in the conversion tables were adjusted.

<sup>6/</sup> Restaurants, cafés, dining places and other catering services, laundries, cleaning and dyeing; motion picture production and other similar services.

#### General remarks on procedures used

- 2.43 The general procedure employed for derivation of net material product of Japan is similar to that used for the United Kingdom. Two separate stages were employed. In the first stage, the conversion of SNA categories into their MPS counterparts was carried out strictly within the framework of the conversion tables, and input/output tables were used as the only source of primary data. In the second stage, the estimates of net material product derived in the conversion tables were adjusted by additional data supplied from other sources. This ensures consistency in the interrelated adjustments in the conversion tables, as well as identical estimates of net material product in the different conversion tables; in addition, this approach makes it possible to demonstrate the links between the input/output tables and the conversion tables; major adjustments in the conversion tables can be identified in the input/output tables.
- 2.44 All adjustments included in the conversion tables are consistent with general methodology described in chapter I, the adjustment relating to "consumption expenditures outside households" being the only exception. That item relates to expenditures on public relations designed to improve good will of business units, treated in SNA as intermediate consumption but in the countries using the MPS normally financed out of profits. The adjustment with regard to that item was not mentioned in the common conversion procedure, because Japan is the only country for which data on the item are available.

## Derivation of gross domestic product in the conversion tables

2.45 Certain adjustments were required in the input/output tables to obtain estimates of gross domestic product consistent with SNA categories, at least in broad terms. "Consumption expenditures outside households" shown in the original input/output tables as a component of value-added and final demand was reallocated to intermediate input. Indirect taxes shown in quadrant III are defined to exclude import duties and, therefore, import duties were added to indirect taxes to obtain gross domestic product at purchasers' prices.

# Derivation of net material product

- 2.46 Data for all of the adjustments included in the conversion tables are extracted from the condensed input/output tables, and only a few comments are believed to be useful to clarify the procedures used.
- 2.47 In table 3.4, relying on gross output and intermediate consumption data, the estimates of gross output on non-material services include:
- (a) The sum of gross output of non-material industries shown in the condensed input/output tables; and

- (b) Import duties relating to non-material services, shown in quadrant II of the input/output tables.
- 2.48 "Unclassified items" distinguished in the input/output tables were treated as belonging to the non-material sphere.
- 2.49 The final estimates of net material product, in billions of yen; obtained on the basis of the two-stage procedure described above can be presented as follows:

1965	24 262.6	+ 498.9	=	24 761.5
1970	56 372.6	+ 1781.5	=	58 154.1

•
1965

																			,	(10)		
		-trotage				Electri-	-efod#			Commu-			Con-	Private	F in a	Gross	n d					
		ture,	Mining	Manufac-	Construc-	Fidding	and	Transport and	finance, govern	govern-	Un- classi-	Sub-total	e in	sumption	٦,	fixed capital l	_	Exports	Total	Imports	Import	Total output
		fishing	rying.	Surana	TOD	sanitary	trade	oation	estate	personal eervices	11ems		holds	۲	tures	7	n tooks				duties	(a+h+i+j)
	Code	L			4	5	۰	7	8	٩	ot	(a)	11	(0)	( <u>a</u> )	0	Ð	<b>6</b>	(A)	Ξ	Ξ	k
agriculture, forestry	н	548160	7541	3642027	16050	16	17	12	19	6001	96729	4316572	8	26	374	79	928901	74370	1382659	-925470	-27346	4746415
Mining and quarrying	N	876	5688	1105090	210098	97074		7989	109	3758	2424	1435106		14767	2151		20373	2366	_	-833943	-48247	590573
Manufacturing	u,	752419	90201	90201 15010551	2982293	135760	423816	592370	56503	779737	354750	21178400	896035	7570121		3204335	390715			-1196126		34813418
Construction	4	26377	6434	95042	6005	43955	50543	26644	248325	62689	462	572476			15837	6051750						6640063
Electricity, gas, water supply and sanitary services	<b>5</b>	8955	23932	539567	37444	20398	65914	48671	15139	115762	27094	902874	268	386021	18140			3641	408070	-232		1310712
Wholesale and retail trade	٥	801.45	24253	1282434	414850	10465	137208	78545	7307	155600	47728	2238534	280287	2819209	34324	399013	37391	185479	3755703	-54950		5939287
Transport and communication	7	66635	14690	905049	283090	33380	311526	304983	77803	181098	68915	2247169	26917	945629	97976	55808	14628	221949	1362907	113641		3723917
Finance, insurance and real estate	8	66429	9609	476054	79838	11805	344770	56082	98651	102763	63220	1309221		2533295	91342			2202	2626839	437		3936497
Community, government business and personal services	•	6912	4754	416120	50780	20626	180721	24763	58431	209122	31568	1003797	639526	2969713	2679789			21171	6310199	-27205	-286	7286505
Unclassified items	ĕ	92031	21967	606477	87930	43406	1241	14552	58200	122272	-138	1047718			34258			45426	79684	-81510	-1778	1044114
Sab-total	Ŀ	1648937	209069	2407643.1	4160978	416885	1523755	1154391	620487	1738802	692752	36249867	1939615	1901081	3217197	9763085	569935	3431415	37012320	851 <b>5006</b> -	-225536	70031501
Consumption outside bouseholds	•	20996	20274	599161	224805	32507	308790	95825	116845	770077	210335	1939615						i				
Compensation of	a	378444	183904	4436356	CortyF1	200065	17005E8	1510422	606724	3271164	-7	13829809										
Opensides surptus	ь	2298403	79078	3147534	584625	235072	1872878	293110	1772723	1472786	124702	11606911										
Depreciation of fixed oapital	<b>M</b>	355659	88869	1371140	146149	294718	255908	631577	572407	390909	۴.	4107330										
Indirect taxes less subsidies	74	43976	9379	1182816	54697	130665	277428	38192	167711	102767	16338	2023969										
Total Esput (A+B+C+D+E&P)	င	4746415	590573	34613418	6640063	1310712	5939287	2162325	3936497	7286505	1044114	70031501										

(billion yen) Table 3.2. Derivation of net material product from data on value-added, Japan, 1965

Net material product (3-4+5+6) 254.0 223.5 6419 329.1 10864.6 4686.3 24262.6 2907.1 2033.1 Consumption outside households 1,302.4 ০ ৱ 8.5 599.2 224.8 8.5 308.8 95.8 1302.4 non-material the material consumed in 2616.6 2616.6 165.3 36.4 218.5 75.8 services 1498.7 526.7 95.2 Value of sphere Value-edded in the non-2626.8 8,9484 141.0 7616.7 7616.7 material 2.1 sphere domestic product (1-2) 223.5 2100.7 566.6 2626.8 8°9484 272.4 8766.7 3850.8 141.0 2780.8 1842.1 2.1 7616.7 27960.3 Consumption of fixed 88 146.2 255.9 631.6 572.4 390.9 963.3 4107.3 1371.1 7.462 3144.0 355.7 2 assets domestic product 2.1 8580.0 32067.6 223.5 3076.5 2246.9 861.3 361.2 2199.2 141.0 10137.8 4106.7 5237.7 2473.7 Gross විර  $\mathfrak{S}$ (1) 5 9 Q 4 Ø 9 ន Community, government, busi-Fransport and communication ness and personal services Wholesale and retail trade and non-material services
II. Non-material sphere
TOTAL (1+II) Import duties related to Import duties related to Electricity, gas, water Agriculture, forestry Finance, insurance and Mining and quarrying material goods 1. Material sphere Inclassified items Manufacturing real estate Construction fishing supply

Table 5,5. Derivation of net material product from data on final uses, Japan, 1965

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	·				for tenden from wert in now were common with the common of		(billion yen)
	5	Final expen- ditures on	Consumption of fixed	Material inputs in	Consumption of fixed	Material part of		21A
	1	Bervices		meterial sphere	the non- material sphere	outside households	§ 5	cacegories or the Are
	1	2	3	#	5	9	7	
Final consumption expenditures of residential households	18091.1	5503.0					12588.1	12588.1 (1-2)
Other final consumption	3217.2	2805.4		2308.0	963.3	1300.0	4983.1	4985.1 Other final consumption (1-2-44-5+6)
Gross fixed capital formation	9763.1		4107.3				5655.8	Met fixed capital 5655.8 formation (1-3)
Capital formation in stocks	569.9						569.9	Increase in stocks (1-2)
Exports minus imports	426.3						165.8	Exports minus imports (1-2)
Gross domestic product	32067.6	8268.9	4107.3	2308.0	963.3	1300.0	24262.7	24262.7 Met material product (1-2-3+4+5+6)

Table 5,4. Derivation of net material product from data on gross output and intermediate consumption, Japan, 1965

		intermediate	intermediate consumption, Japan, 1905	epen, 1965			(billion yen)
Categories of the SMA	STA	Gross output of the non- meterial sphere	Intermediate Consumption consumption of non-in the non-material services in sphere rial sphere rial sphere		Consumption Consumption of fixed assets in households the mater in the rial sphere sphere	Consumption outside households in the meterial	Categories of the NPS
	ı	2	3	- t	5	9	
Gross output	70257.0	12269.2					57987.8 Global product (1-2)
Intermediate consumption	38189.4		3689.2	2616.6	3144.0	1302.4	33725.2 Intermediate material
			·				consumption including depreciation (1-3+4-5-6)
Gross domestic product	32067.6	32067.6 12269.2	3689.2	2616.6	3144.0	1302.4	24262.6 Met meterial product (1-2+3-4+5+6)

Table 3.5. Condensed input output table, Japan, 1970

(million yen)

					Electri-	ſ			Comme	1				Pinal		0 H A H G					
	ture.			į	att.		Transport	Pinanoe,	ni ty. govern-	_		-				<u> </u>		1	j	]	Total
	End Cint	1		tion	and and sent terry	retail	communi-	and real	personal	fied fied	Sub-totel	house-	expendi-	expendi-	forms.	in tooks	1. Today		and a	duties	(a-h-1-1)
apo <sub>0</sub>	_	H		1		11	-		٩	٩		П		3	П		9	4	3	3	3
Agriculture, forestry and fishing	910942	577.5	5584811	23673					179468	46119	9828089	37063	1763636		94043	4991	90043	1989776	-1638052	-46916	7113594
Mining and quarrying 2	360	3869	259223	350521	160728		2613	3	1657	44346	3156481		3217	942		58234	6100	68493		-119642	959233
Hanufacturing 5	1199420	188242	35313982	7205760	360172	1080475	931212	122558	3844781	823198	51069000	759359	13270757		9461356	2103939		32520732	_	-331350	60178235
Construction 4	5223	7976	196365	22578	81707	86285	62554	692197	132072	9946	1343901			_		-		14914875			16258776
Electricity, gas, vater supply and sanitary	12786	23301	1067364	77346	1536	164375	96843	40435	222672	31249	1774762	337	673933	175446			3517	853243	দ্		7701696
Wholesale and retail 6	6 104683	22814	3081072	969252	13628	282181	54538	19551	902844	498382	5948945	274721	5808835		1722041	151566	456827	8459901	-119160	· · · · · · · · · · · · · · · · · · ·	14289686
frameport and communication 7	92116	22401	1605615	550060	46842	548531	596930	128651	284910	97821	1189968	15483	2370770			18459	1189962	3879136	-402102		7443911
Finance, insurance and real estate 8	8 113391	16281	1412409	241048	60450	1356744	259943	243532	278133	260547	4242478		6280987	298287		}	25226	6604500	-32400		10814578
Community, government business and personal services 9	27360	12634	1793911	384734	49026	544048	126568	274560	633594	106682	3953117	2028137		4846691		· ''		14472777	-93790		18331864
Unclassified items 10	91108	26210	1713245	289448	09969	12536	116511	224443	977.117			48744	_	167795		22392		457725	-212733	3 7	3499906
Sub-total A	2597287	327501	54360997	10114420	880604	4075175	2247912	1745991	7251907	1918289	85520083	3163844	37732164	6162633 26257909		359561	6545007	84221138	-7725334	-496170	161517717
Consumption outside bouseholds	27418	21652	1130519	420665	25649	537294	223188	160191	511234	105134	3163844										
Compensation of employees C	610739	319847	10701633	2960137	518840	4553689	3107763	1763249	7026477	122213	31684587										
Operating surplus D	D 5346979	162152	8162177	1968766	534674	4016672	613744	5431680	2179488	1165972	27602334										
Depreciation of fixed apital	628330	166767	3303150	662299	514751	648547	1185154	1423510	886483	112168	9531173										
Indirect taxes less subsidies	-97159	-39686	2519759	132495	153426	458309	66120	289057	476265	56110	969510#										
Total input (A+B+C+D+B+P)	113594	959233	80178235	16258776	2627944	14289686	7443911	10814578	18331854	966649	14151711										

Table 3.6. Derivation of net material product from data on value-added, Japan, 1970 (billion yen)

		Gross domestic product	Consumption of fixed assets	Met domestic product (1-2)	Value-edded in the non- material sphere	Value of non-material services consumed in the naterial	Consumption outside households	Net material product (3-4+5+6)
	Code	÷	2	3	tı	sphere 5	9	7
Agriculture, forestry and fishing	٦	6.884¥	628.3	3860.6		231.9	4.12	6.6114
Mining and quarrying	N	610.1	166.8	145.3		55.1	2.7	520.1
Manufacturing	ĸ	· 24686.7	3303.2	21383.5		4919.5	1130.5	27453.5
Construction	<b>4</b>	5723.7	6.62.3	5061.4		915.1	120.7	6397.2
Electricity, gas, water supply	7	1721.7	514.8	1206.9		179.2	25.0	1,1141
Wholesale and retail trade	9	9677.2	648.5	9028.7		1913.2	537.2	1.679.1
Transport and communication	7	4972.8	1185.2	3787.6		503.0	223.2	4513.8
Import duties related to material goods	9	6.794	1	6.764				6°164
I. Material sphere		52379.0	7109.1	45269.9		8717.0	2385.7	56372.6
Finance, insurance and real estate	<b>6</b> 0	8907.5	1423.5	7484.0	7 <b>484.</b> 0			
Community, government, business and personal services	6	10568.7	886.5	9682.2	9682.2			
Unclassified items	ឧ	1476.5	112.2	1364.3	1364.3			
Import duties related to	E	6.0	1	0.3	0.3	-	-	
II. Mon-material sphere		20953.0	2422.2	18530.8	18530.8			
TOTAL (I+II)		73332.0	9531.3	63800.7	18530.8	8717.0	2385.7	56372.6

Table 5.7. Derivation of net material product from data on final uses, Japan, 1970

					•		<u>ਡ</u>	(billion yen)
Categories of the SMA		Final expenditures on non-material services	Consumption of fixed assets	Meterial inputs in the non- material sphere	Consumption of fixed assets in the non- meterial sphere	Material part of consumption outside households	Catego	Categories of the MF8
	T	5	3	77	5	9	4	
Final consumption expenditures of residential households	37732.2	1,7840.9					27891.3 (1-2)	Personal consumption (1-2)
Other final consumption	6162.6	5312.2		8181.3	2422.2	1086.9	12540.8	12540.8 Other finel consump- tion (1-2+4+5+6)
Gross fixed capital formation	26257.9		9531.3				16726.6	16726.6 formation (1-5)
Capital formation in stocks	2359.6	4.22					2557.2 (1-2)	Increase in stocks (1-2)
Exports minus imports	819.7	- 57.0					876.7	876.7 Exports minus imports (1-2)
Gross domestic product	73532.0	19118.5	9531.3	8181.3	2422.2	1086.9	56372.6	56372.6   Met Material product   (1-2-3+4+5+6)

Table 5.8. Derivation of net material product from data on gross output and intermediate consumption, Japan, 1970

							76)	(DITTION New)
		Gross output	Intermediate	Intermediate   Consumption	Consumption Consumption	Consumption		
		of the non-	consumption of non-	of non-	of fixed	outs1de		
Categories of the SMA	≪.	material	in the non-	material	assets in	households	Categorie	Categories of the MPS
		sphere	material	services in	the mate-	in the me-	1	
			sphere	the mate-	rial	terial		
	1	2	3	7	5	9	7	
Gross output	162015.9	32646.7					129569.2 01	129369.2 Global product (1-2)
Intermediate consumption	88683.9		11693.7	8717.0	7109.1	2385.7	72996.6 In	72996.6 Intermediate material
							8	consumption including
								depreciation (1-3-4+5-6)
Gross domestic product	73332.0	32646.7	7.56911	0.7178	7109.1	2385.7	56372.6 1	56372.6   Met material product (1-2+3+4-5+6)

# 4. Austria

### Sources of data

2.50 The main source of data is the input/output table for 1964 published in Standardized Input-Output Tables of the ECE Countries for the Years Around 1965. 7/ The rules of standardization of the input/output tables of the participating countries are fully described in that publication and are not repeated here. It should be, however, noted that sectors included in the standardized input/output tables were defined according to the kind of commodity produced and not according to the main activity of the enterprise or other units concerned. The standardized input/output table has been adapted for the intersystem comparisons, by separating the flows of material goods from the flows of non-material services and showing incomes originating in the material sphere separately from those originating in the non-material sphere. Eleven sectors are shown, three of which - namely, "dwellings", "non-material services" and "government and community services" - belong to the non-material sphere.

## Derivation of gross domestic product in the conversion tables

- 2.51 In table 4.2, gross value-added, shown in quadrant III of the condensed input/output table, was increased by import duties shown in a separate row of the input/output table.
- 2.52 In table 4.4, where gross domestic product is obtained as the difference between gross output and intermediate consumption, gross output is taken equal to the sum of "gross output" shown in the condensed input/output table and import duties, recorded in the separate row of the input/output table.

#### Derivation of net material product

- 2.53 The adjustments included in the conversion tables in order to derive net material product are standard and in conformity with the methodology outlined above. Only a few explanatory comments are needed.
- 2.54 In conversion table 4.4, gross domestic output of non-material services was computed as the sum of gross domestic output of non-material services shown in the input/output table and the corresponding amount of import duties.
- 2.55 In conversion table 4.3, net exports of non-material services were computed as the difference between exports of non-material services,

<sup>7/</sup> United Nations Statistical Commission and Conference of European Statisticians, Statistical Standards and Studies, No. 30, 1977.

shown in a separate column of quadrant II of the input/output table, and imports of non-material services recorded in the cells at the intersection of the row for imports and the columns relating to non-material activities.

- 2.56 In conversion table 4.2, unallocated items were arbitrarily classed as non-material activities.
- 2.57 Since all the adjustments are derived exclusively from the input/output table, strict consistency among the estimates of net material product is achieved in all three conversion tables.

Table 4.1. Condensed input/output table, Austria, 1964

(million schillings)

		Aertoul.						Trans-				Governa-	۲	Total			7.1.7	Finel u				
		ture, forestry and fashing	Mining and quar- rying	Manufao- turing	Electri- eity, gas and water	Construc- tion	Trade	4	Material	Deelling	Non- material services	and commu- nity servi-	Un- allo- cated	, E	Of which material sphere	Private 1 consump- tion	Public for tion	Gross fixed capital forms-	Change In stocks	Exports	Total final	Total
	Sode S	H	~	n	4	5	ů	F		٩	2	H	22	3	9	3	3	9	9	3	Æ	3
Agriculture, forestry and fishing	, न	1029	18	19568	,	*	ĸ	10	1639		*	20	,	22682	22383	11151	,	3	1006	86	13696	36378
Mining and quarrying	~	8.	1316	3865	657	31.39	'n	257	121	ድ	\$	397	-	9943	9448	976		1340	27.8	1603	4339	14282
Manufacturing	•	6694	1361	60089	179	6413	308	1505	5749	194	2960	4764		101699	19666	66952		16012	4436	33767 1	132266   3	234165
Electricity, gas and water	4	191	233	2376	2	149	Ę	328	262	432	727	6	,	5353	4208	2194	,	Š		954	3652	
Construction	7	346	911	1691	168	834	294	312	427	1907	316	1439	,	7813	4251	1933	٠,	23915	•		25948	33761
Trade	9	726	255	5385	172	1524	ğ	351	1025	R	162	970	,	11933	10142	24829	•	4632	117	1080	30658	42591
Transport and	<b>-</b>	155	333	5421	156	707	2682	2490	237	ฆ	726	196		13895	12161	5591		716	£	1105	7746	21641
Selected material services	ø	,	8	724	ю.	141	%	242	37	,	281	222		1975	1472	14514	•	22		~	14553	16528
Deellings	٥	,	13	515	ន	700	559	148	49	•	244	184		1822	:	6442		•	-	'	6442	9264
Non-material services	of G	202	286	4935	93	427	1025	326	650	1142	1397	2813	4196	18374	:	6186		672	•	722	9582	27956
Government and community services	11	185	56	999	12	32	19	9	7	701	50	+	-	1822	:	:2111	29662	348			32441	34263
Total inputs of goods and services	4	2777	4105	113845	2450	13563	9279	7517	10203	4377	7153	12448	4796	197511	:	144883	29662	60051	5850	40557 28	281323 4	478834
of which:			-															r			<u> </u>	
Material sphere	A	9002	3750	107829	2335	159621	7634	7034	9497	;	:	:	,	:	158046	128142	17447	59031	5850	39835	<del>-</del>	408351
First capital consumption	ton C	3906	722	5827	1706	1002	3660	2801	795	4540	178	1580		25410	18419					_		
Compensation of employees	А	3123	3515	35926	2076	10842	99101	10898	2621		9237	19875	1	108281	69162		-					
Indirect taxes less subsidies	M	38	415	6394	112	2045	4912	759	1494	163	1961	88	,	77608	18513							
Other incomes		14751	1747	22361	2450	6239	91091	-369	141	-816	7428		-4796	66422	75297			•				
Gross value added	0	25162	6339	72508	6344	20128	32756	14089	6321	3887	19517	21715	-4796	221090	:							
Gross output (A+C)	=	29937	10504	186353	8794	33691	42035	21606	16524	8264	26670	34223	,	418601	349444							
Imports	н	5901	3630	39780	211	٤	256	23	₹	,	1283	8		51510	50187							
Import duties	ı	540	148	8032	•	•		-	-	•	3	-	-	8723	8720							
Total (H+I+J)		36378	14282	234165	9005	33761	42591	17912	16528	8264	\$7956	34263		478634	166904							

(million schillings) Table 4.2. Derivation of net material product from data on value-added, Austria, 1964

Net Material Product 19565 6180 90729 1733 19728 181699 181699 32741 83 1771 (ダーキも) non-material the material consumed in Value of services 9109 9 न 808 1645 355 183 706 10901 10691 sphere Value-edded in the nonmaterial 18649 - 653 20195 - 4796 33395 33395 sphere Domestic product (1-2) 5825 19126 31096 171008 74713 1638 11288 5526 18649 20195 - 1496 33395 204403 - 653 Consumption of fixed 18419 3906 1706 1002 1660 15.50 25410 5827 2801 33 4 1288 1669 8 assets . Domestic Product 22702 80540 32756 14089 9624 -**4**0386 229813 20128 189427 21775 6547 まる 19520 6321 3897 Gross Sode 9 2 Ħ ង Transport and communication Electricity, gas and water Selected material services Agriculture, forestry and Government and community II. Non-material sphere Mon-material services Mining and quarrying I. Material sphere

Manufacturing

fishing

Construction

Trade

Unallocated 1tems

services

Dwelling

(I+I)

a 1

T 0 t

Table 4.3. Derivation of net material product from data on final uses, Austria, 1964

(million schillings)

Categories of the EURA	V SEE	Final expenditures on non-material services	Consumption of fixed assets	Material inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere	8	Categories of the MPS
	7	2	3	7	5	9	
Final consumption expenditures of residential households	288/11	T419T				241821	Personal consumption (1-2)
Other final consumption	29982	29662		<u> ጉ</u> ቲቀታር	1669	24438	Other final consumption (1-2+4+5)
Gross fixed capital formation	15009	1020	25410			33621	Net fixed capital formation (1-5)
Capital formation in stocks	5850					5850	Increase in stocks
Exports ainus imports	10953	- 601				-10352	Exports minus imports (1-2)
Gross domestic product	229613	टभा <i>र्म</i>	25410	ገያትትር	1669	181699	<pre>Met material product (1-2-3+4+5)</pre>

Table h,h. Derivation of net material product from data on gross output and intermediate consumption, Austria, 1964

(million schillings)

Categories of the SWA	Y	Gross output of the non- material sphere	Intermediate consumption in the non-material sphere	Consumption of non- material services in the mate- rial sphere	Consumption of fixed assets in the material sphere	<u>.</u>	Categories of the MPS
	1	2	5	4	5	9	
Gross output	48679A	09169				358164	358164 Global product (1-2)
Intermediate consumption	197511		28774	10691	61481	176465	176465 consumption including depreciation (1+3-4+5)
Gross domestic product	229813	9169	7 <i>11</i> 4	16901	6१५८१	181699	181699 (1-2+3+4-5)

#### 5. Finland

#### Sources of data

- 2.58 The main source of data for the estimates of net material product is the input/output table of Finland for 1965 published in Standardized Input-Output Tables of the ECE Countries for the Years Around 1965. 8/
  That publication contains a description of the standardization rules applied. It should be pointed out that the sectors included in quadrant I of the standardized input/output tables are defined as commodity groups rather than industries. Differences in treatment of non-material services in SNA and in MPS are taken into account in the standardized tables. This means, in particular, that a clear distinction is made in the input/output tables between the flows of material goods and those of non-material services.
- 2.59 Since in the input/output table of Finland operating surplus was shown on the gross basis i.e., it was combined with consumption of fixed assets efforts were undertaken to separate the latter item. The separation was carried out with the help of data on gross and net domestic product at factor cost by industries published in <u>Tilastotiedotus</u> Statistic Rapport, 1976, National Accounts, 1964-1976, published by the Central Statistical Office of Finland <u>9</u>/. Consumption of fixed assets by major industries was derived by subtracting net domestic product from gross domestic product.

## Derivation of gross domestic product in the conversion tables

2.60 In table 5.4 where gross domestic product is computed as the difference between gross output and intermediate consumption, the gross output figure is obtained as the difference between "total resources" shown in the input/output table and imports. The statistical discrepancy shown in the input/output table was included in gross output, in order to achieve consistency with other flows.

<sup>8/</sup> United Nations Statistical Commission and Conference of European Statisticians, Statistical Standards and Studies, No. 30, 1977.

<sup>9/</sup> Pp. 24-25, 28-29.

2.61 The figures on gross domestic product in all conversion tables differ by the amount of the statistical discrepancy from those shown in the original standardized input/output tables of Finland.

## Derivation of net material product

- 2.62 All adjustments included in the conversion tables are standard and in conformity with the methodology outlined above. A few explanatory notes are given below.
- 2.63 Gross output of non-material services, shown in table 5.4, was calculated as the difference between "total resources" of non-material services shown in the condensed input/output table and imports of non-material services recorded in a separate row of the input/output table.
- 2.64 Net exports of non-material services shown in table 5.3 were computed as the difference between exports of non-material services recorded in a separate column of quadrant II of the input/output table and imports of non-material services shown in the cells at the intersection of the columns relating to non-material industries and the row for imports.
- 2.65 The estimates of net material product derived in the different conversion tables are consistent with each other and differ only by the amount of the statistical discrepancy.

	Agricul-						-900				Govern-	-	ă			7.4.7	n + 1 u				
	fure, forestry and flehing	Mining and quar- rying	Manufac- turing	Electri- city, gue and water	Construc- tion	age of	port and communi-	Material services 1	Dellings	Non- material services	4. +	The sale	Interne- diate con- sumption	which sphere	Private Consump-	Public consump- tion	Gross Cixed capital forms-	Change in stocks	Eports	Total final uses	Total
Code		2	-	ŀ		H	H		0	٩		2	3	2	3	9		9	9	3	3
Agriculture, forestry and fishing	1175.9	ě.	3994.3	1.3	110.0	•	2.3	.5 5.0	120.0		117.8		0.9966	5320.2	967.0		8.5	152.9	182.7	1,906.1	6674.1
Mining and quarrying 2	6.5	2.7	370.8	76.1	24.7	,	6.9	0.1	38.5		77.8	•	199.1	6.17	4.2	,	•	-31.6	0.3	36.4	531.5
Hanniacturing 3	9.909	47.3	9.8299	0.991	1660.5	0.69	663.4	281.0	115.4	6.782	445.8	<u> </u>	-		5790.0		2238.8	-		_	23583.4
Rectricity, on and		;	973	į	,	;	;			8	ř				ž		-		- ;	;	
-					3	1	•		***	3 ;	2 :			-			2			_	1469.1
netton	3	7.0	6	24.5	÷	2.5	104.8	9 :	15.2	19.5	359.5		203	6.9	13.9	ï	4226.1				3059.5
Trade	7.5	7.2	9.6	:	186.1	0.	75.4	£.5	9.9	4.	<del>2.</del>		742.2	572.7	3031.2		634.4		8.9	3751.5	4493.7
Transport and oceanication 7	76.4	15.5	805.5	23.1	8.8	72.5	222.8	0.6	137.8	73.0	136.2	,	2077.1	1730.1	1234.4		0.08	-22.3	6,969	1957.0	4034.1
Selected material															960.0					9	0,0
															2407.0						2407.9
al services l	28.5	0.0	132.9	2.4	%	3.794	224.1	2.0	•	47.4	38.2		788.0	: :	635.3		,		73.5		1696.8
Covernment and	_						,								636.9	1,702,7				0 207	4407.9
		•	0.3	•	0.4	•			,	0.6	53.4	•	54.9	0.7			•				54.9
Total inputs of goods and services	2093.7	97.1	12870.7	13.3	2601.5	373.2	1281.6	416.3	627.7	459.8	1336.4		23061.3	:	15706.1	3792.7	7281.8	90.7	5511.8 32575.1		55434.4
of which: Material sphere B	2065.2	6.98	12737.8	710.9	2505.5	185.7	3057.5	386.1	:	:	:	-	:	19735.0	11847.7	2538.3	7281.8	90.7	5438.3	:	46921.8
Fixed capital consumption C	381.6	45.1	7.716	202.3	115.2		267.0	17.2	204.4	40.4		:	2454.3								
Compensation of employees D	2409.8	7:2	3843.2	198.3	1951.3	1362.2	1715.3	224.1	47.6	773.4	2639.9	-	15239.5	11778.6			18.118				
substities series	÷	4:1	217.0	11.11	216.6	1965.1	280.2	170.0	21.9	19.4	•		2947.3	2906.0							
Other incomes F	1337.8	56.9	1245.2	238.2	163.7	8.00	309.2	33.4	1306.3	289.1	321.4	•		6867.2							
Not value added (D-E+F) G	3791.9		5305.4	447.6	2331.6	3925.1	2384.8	427.5	1375.8	1061.9	2961.3	- 5	_	:	_						
Gross output (ArC+G) H	6267.4		19093.8	1363.2	5048.3	4451.5	3933.4	961.0	2407.9	1582.1	4407.7	<del>š</del>	<u>~</u>	41286.8							
Laports I	16.4	-14.2	4516.9	3.2	11.2	. 43	13.6	. 0		-2.6	. ~	· <del>2</del>	25.55 	57.5							
fotal (B-I-4)	6874.1	531.5 23583.4	1	1429.7	599.5	4493.7	4034.1	860.9	2407.9	1696.8	4407.9		55434.4	46921.8							

Table  $5_{\circ}2$ . Depreciation of fixed assets, Finland, 1965 (million MK)

	Code	Gross domestic product at factor cost	Net domestic product at factor cost	Depreciation
Agriculture, forestry and fishing	1	4129.4	3747.6	381.8
Mining and quarrying	2	173.1	128.0	45.1
Manufacturing	3	5894.6	4976.9	917.7
Electricity, gas and water	4	638.6	436.3	202.3
Construction	5	2230.2	2115.0	115.2
Trade	6	2688.7	2535.5	153.2
Transport and communication	7	1671.8	1404.8	2 <del>6</del> 7.0
Services	8,10	2640.4	2531.3	109.1
Dwelling	9	1558.3	1353.9	204.4
General government	11	943.5	914.3	29.2
Banking and insurance	•••	577.0	547.7	29.3
TOTAL		23145.7	20691.3	2454.4

Source: Tilastotiedotus Statistic Rapport. 1976, National Accounts 1964-1976, pp. 24-25, 28-29.

Table 5.3. Derivation of net material product from data on value-added, Finland, 1965 (million MK)

		Gross domestic product	Consumption of fixed assets	Net domestic product (1-2)	Value-added in the non- material sphere	Value of non-material services consumed in the material sphere	Net material product (3-4+5)
	Code	1	જ	3	<b>†</b> 1	5	9
Agriculture, forestry and fishing	Н	4173.7	381.8	3791.9		28.5	7820.4
Mining and quarrying	2	181.1	45.1	136.0		0.8	136.8
Manufacturing	3	6223.1	917.7	5305.4		132.9	5438.3
Electricity, gas and water	#	6.649	202.3	9.744		7.2	1,50.0
Construction	5	8.944z	115.2	2331.6		0.96	5.754s
Trade	9	4078.3	153.2	3925.1		187.5	4112.6
Transport and communication	7	2651.8	267.0	2384.8		224.1	2608.9
Selected material services	œ	1. ith	17.2	427.5		30.2	1-734
I. Material sphere		20849.4	2099.5	18749.9		4.507	19452.3
Dwelling	6	1580.2	4.40S	1375.8	1375.8		
Mon-material services	10	1122.3	भ••भ	1081.9	1081.9		
Government and community services	TI.	3071.3	110.0	2961.3	2961.3		
II. Non-material sphere		5773.8	354.8	०•६१५५	०•6ाभुऽ		
TOTAL (I + II)		2.6623.2	2454.3	6°89142	0*6145	702.h	19452.3

Table 5.4. Derivation of net material product from data on final uses, Finland, 1965

(million MK)

Categories of the SNA		Final expenditures on non- material services	Consumption of fixed assets	Material inputs in the non- material sphere	Consumption of fixed assets in the non-material sphere	Cart	Categories of the MFS
The second contract to	1	2	3	77	5	9	Townson 1 constitution
expenditures of residential households 15706.1	15706.1	<b>ት.</b> 8₹8₹				7.74811	(1-2)
Other final consumption	3792.7	3792.7		2538.3	354.8	2893.1	Other final consumption (1-2+4+5)
Gross fixed capital formation	7281.8	<del></del>	2454.3	•		4827.5	Net fixed capital formation (1-5)
Capital formation in stocks	80.7					80.7	Increase in stocks
Exports minus imports	-182.6	-43.8				-138.8	Export minus imports (1-2)
Gross domestic product 26678.7*	26678.7 <sup>x</sup>	7607.3	2454.3	2538.3	354.8	19510.2 <sup>*</sup>	Net material product (1-2-3+4+5)

x) Including statistical discrepency of 55.5 mil. MK. shown in the original input-output table.

(million MK) Table 5.5. Derivation of net material product from data on gross output and intermediate consumption, Finland, 1965

Categories of the SWA		Gross output of the non- material services	Intermediate consumption in the non-material sphere	Consumption of non- material services in the mate- rial sphere	Consumption of fixed assets in the material sphere	<b>8</b> 2	Categories of the MPS
	1	2	3	ħ	5	9	
Gross output	0.047764	8453.2				41286.8	Global product (1-2)
Intermediate Consumption	23061.3		2623.9	702.4	2099.5	21834.5	Intermediate material consumption including depreciation (1-5-4+5)
Gross domestic product	26618.1* 8453.2	8453.2	2623.9.	ተራይ•	2099.5	19452.3	Net material product (1-2+3+4-5)

x) Including statistical discrepancy of 55.5 mil. mk. shown in the original input-output table.

## Developing countries

# 6. Peru

### Sources of data

- 2.66 The basic source of the estimates of net material product is the input/output table published by the National Institute of Planning in its publication Relaciones Interindustriales de la Economía Peruana; Tabla Insumo-Producto, 1969.
- 2.67 The input/output table embraces all main activities of the national economy and major groups of commodities produced. It should, however, be noted that the estimates of gross domestic product in the input/output table are not identical with those in the national accounts. The detailed original input/output table was condensed into 11 productive sectors consisting of seven branches of the material sphere and four branches of the non-material sphere.
- 2.68 Additional information from various statistical publications of Dirección Nacional de Estadística y Censos and Banco Central de Reserva has been used to obtain data on selected material services, shown in the original input/output table combined with non-material activities. These adjustments were made outside the conversion tables in order to preserve the consistency among the interrelated items of the conversion tables.
- 2.69 Since the original table does not show consumption of fixed assets as a separate item, it was assumed that the share of depreciation of fixed assets in gross value-added was constant.

#### Derivation of gross domestic product in the conversion tables

2.70 Gross output in SNA sense, shown in conversion table 6.4, is computed as the difference between "total output" recorded in the condensed input/output table and imports; the figures on disposition of goods in the input/output tables include both domestic output and imports. Intermediate consumption in SNA sense shown in the same conversion table was taken equal to the "total intermediate consumption" in the condensed input/output table reduced by imports.

### Derivation of net material product

- 2.71 The adjustments included in the conversion tables are standard. A few comments with regard to the calculation of certain adjustments are given below.
- 2.72 Gross output of non-material services shown in conversion table 6.2 is taken equal to the difference between "total output" of the industries producing non-material services shown in the condensed input/output table and imports of non-material services "transferred" to the industries where

such services are normally produced as characteristic products; data on the latter item are identified in the condensed input/output table.

- 2.73 Net exports of non-material services is computed as the difference between exports of non-material services shown in a separate column of the final demand section of the condensed input/output table and imports of non-material services recorded in the cells at the intersection of the row for imports and the industries producing non-material services.
- 2.74 A final estimate of net material product is obtained by adjusting the figures derived in the conversion tables by the data on value-added of selected material services collected from sources other than input/output tables. This estimate, in millions of soles, is as follows:

142 907.3 + 3 379.4 = 146 286.7

						table.	Condemse	Condensed input/output table, Peru, 1969	put table,	Peru, 1965	_							
	į												j			•	(million soles)	_
	ture,													7 4 8 4	•	9		
	forestry and fishine	Surgana surgana surgana	Mermicao- turing	Construc- tion	Electri- city	Trade	Transport and communi-	Minostion and besith	Pinance and in- surance	Deellings	Personal services	Inter- inter- mediate	Final consump-	Gross fixed capital	8 8	Exports	Total	Total output (a+f)
ဗိ	Code	[   		-	4	H	-		٩	2	F	100		(0)	(9)	9	9	9
Agriculture, hunting, forestry and flabing	1 6996.4		11005.3									17961.7	22328.9		110.2	693.2	23132.3	41114.0
Mining and quarrying	2 56.8	9.199	12564.9	8.4.8					-			13368.1			380.6	7021.5	7402.1	20790.2
Manufacturing	3 5748.1	1445.1	20072.4	3957.0	194.6	536.4	4952.6	1559.9	249.0		955.9	37451.0	49712.1	3995.8	1669.3	25781.1	81158.3	116609.3
Construction	<del>-</del>	95.9			3.7	33346	62.4	47.7	-	1044.8		1586.1		12060.9			12060.9	13649.0
Lieutricity	5 0.6	10.1	931.6		12.3	130.3	311.4	72.8	68.2	6.9	108.1	6.1191	1267.0				1267.0	2678.9
frade	6 346.9	257.5	3658.1	623.3	37.2	946.3	658.4	180.5	8.3	•	203.0	7007.5	28332.1				28532.1	35339.6
Transport and communication	-	656.9			37.6	6413.2	433.1	37.2	204.6		92.1	8044.7	12095.6				12095.6	20140.3
Mucetion and health	•						3.7					3.7	18464.7				18464.7	18468.4
Pinance and insurance	9 167.6	195.7	6.730		27.3	1237.7	743.3	94.1	1-63-1	140.7	552.9	5390.3	3336.2				3336.2	6726.5
Deellings	ot Ot												11218.1				11218.1	11216.1
Personal services	11 207.6	1076.7	5401.0		29.5	1357.1	781.7	134.8	440.5	116.1	1159.6	10686.6						10686.6
Bub-total	11424.0	4571.5	54361.2	1.2454	342.2	10934.6	7946.6	1927.0	2621.7	1308.1	3071.6	103153.6	146754.7	16056.7	2160.1	33495.8	198467.3	901620.9
Imports	B 920.2	1615.3	18307.0	6.527	114.9	0.69	1394.8	340.0	6.0		105.2	23593.2						
Total intermediate consumption	0 12344.2	6.06.0	72668.2	5371.0	457.1	13003.6	9341.4	2267.0	2622.6	1,908.1	3176.8	3176.8 126746.8						
Value added	D 28769.8	14603.4	45941.1	8276.0	2421.8	24336.0	10796.9	16201.4	6.003.9	9910.0	1509.8	174674.1						
Total input (0 + D)	E 41114.0	20790.2	118609.3	13649.0	2878.9	9.041.55	2 04 150	7 97791	3 7020		7 78701	0 007108						

. Derivation of net material product from data on value-added, Peru, 1969 Table

						(Ltm)	(million soles)
		Gross domestic product	Consumption of fixed assets	Net domestic product (1-2)	Value- added in the non- material	Value of non- material ser- vices consumed in the materi- al sphere	Net material product (3-4+5)
	e Poog	1	2	3	7	5	9
Agriculture, hunting, forestry and fishing	7	28769.8	891.7	27878.1		375.2	28253.3
Mining and quarrying	~	7,503,4	452.7	14,150.7		75.4.7	15425.1
Manufacturing	~	45941.1	1355.2	6*585*77		6.8909	8-75905
Construction	4	8278.0	256.6	8021.4		f	8021.4
Electricity	8	24,21,8	75.1	2346.7		56.8	2403.5
Trade	9	24,336.0	754.4	23581.6		2574.8	26156.4
Transport and commucation	7	10798.9	334.8	10464.1		1528.7	11992.8
I. Material sphere		135149.0	5*0217	131028.5		8.878LL	142907.3
Education and health	8	7°10291	505.3	1,669,1	1,66951		
Finance and insurance	6	6103.9	189.2	2974.7	5914.7		
Deellings	97	9910.0	307.2	9602.8	9602.8		
Personal services	п	7509.8	232,8	7277.0	7277.0		
II. Non-material spher-		39725.1	1231.5	38493.6	38493.6		
III. Total (I +II)		174874.1	5352.0	169522.1	38493.6	11878.8	142907.3
			. 0 4				

Table Derivation of net material product from data on final uses, Peru, 1969

Categories of the	he	Final expenditures on non-	Consumption of	Material inputs in the non-	Consumption of fixed assets in the non-	3	(million soles) Categories of the
	1	services 2	assets	material sphere	material sphere	v	
						,	
Final consumption expenditures of residential households	146754.7	33019.0		4726.6	1231.5	119693.8	Personal and other final consumption (1-2+4+5)
Gross fixed capital formation	16056.7		5352.0			10701	Net fixed capital formation (1-3)
Capital formation in stocks	2160.1					2160.1	Capital formation in stocks
Exports mims imports	9902.6	-446.1				10348.7	Export minus imports (1-2)
Gross domestic product	174874.1	32572.9	5352.0	4726.6	1231.5	142903.3	Net material product (1-2-3+4+5)

Table

Derivation of net material product from data on gross output and intermediate consumption, Peru, 1969

			***.	di s	
(million soles)	Categories of the MPS		Global product (1-2)	Intermediate material consumption including depreciation (1-3-4+5)	Net material product (1-2+3+4-5)
	<b>8</b> 2	9	229374.2	86466.9	142907.3
	Consumption of fixed assets in the materi- at sphere	5		4120.5	4120.5
	Consumption of non-material services in the material sphere	4		11878.8	11878.8
	Intermediate consumption in the non-material	3		8928.4	8928.4
	Gross output diate conoft the non-sumption material in the nonsphere sphere sphere	2	5*65987		48653.5
		τ	1.18027.7	103153.6	174874.1
	Categories of the SNA		Gross output	Intermediate consumption	Gross domestic product

## 7. Philippines

### Sources of data and their primary processing

- 2.75 Input/output tables compiled by the National Census and Statistical Office, National Economic and Development Authority, and published in <u>The 1961 Interindustry (Input-Output) Accounts of the Philippines and The Statistical Reporter</u>, volume XV, No. 3 (July-September 1971), were the main sources of data for the 1961 and 1965 estimates of net material product of the Philippines.
- 2.76 The original input/output table for 1961 was condensed into a table of nine sectors according to the major divisions of the CMEA classification by kind of economic activity; two of the nine sectors namely, "banking, insurance and real estate" and "other services", are considered to belong to the non-material sphere. The original input/output table for 1965 was condensed to 13 sectors, of which the five following sectors belong to non-material sphere: banking and insurance; real estate; government services; private services; unallocated industries.
- 2.77 In the input/output table for 1965, the rows and column for the government sector in quadrant I are left blank since all intermediate inputs were treated as government final current expenditures, and the gross output of this activity was assumed to be equal to wages and salaries of government employees.
- 2.78 Additional information on selected material activities combined in the original input/output tables with non-material services was furnished for 1965 by the National Economic and Development Authority of the Philippines. Similar data for 1961 were obtained by extrapolation. The adjustments associated with net output of those selected material activities were made outside the conversion tables i.e., at the second stage of computation.

#### Derivation of the gross domestic product in the conversion tables

- 2.79 The data for SNA categories distinguished in the conversion tables are identifiable in the condensed input/output tables and few explanatory comments are needed.
- 2.80 The gross output for 1961 in SMA sense shown in conversion table 7.4 is compiled as the sum of:
- (a) The total output recorded explicitly in the condensed input/output table;
- (b) Net indirect taxes levied on final products shown in a separate row of quadrant IV;

- (c) Value-added components for the general government and household sectors recorded in quadrant IV of the condensed input/output table.
- 2.81 Intermediate consumption shown in conversion table 7.4 is computed as the sum of intermediate input from domestic sources and from imports.
- 2.82 Gross domestic product by industries of origin for 1961 shown in conversion table 7.2 was taken equal to the sum of the entries relating to profits, compensation of employees, depreciation and net indirect taxes recorded not only in quadrant III but also in quadrant IV of the input/output table. In particular, the gross product of the government sector and the household sector was taken equal to the sum of compensation of employees and consumption of fixed assets shown in quadrant IV of the input/output table.
- 2.83 Net indirect taxes levied on final product and shown in a separate row of quadrant IV were allocated to manufacturing, because there were no data on the breakdown of those taxes by industry of origin.
- 2.84 For 1965, all categories of GDP distinguished in the conversion tables can be found in the appropriate rows and columns of the condensed input/output table.

### Derivation of the net material product

2.85 Gross output of non-material services shown in conversion table 7.3 is obtained as the sum of the output of the non-material activities shown in the condensed input/output table and components of value-added originating in the government and household sectors shown in quadrant IV of the condensed input/output table.

1

- 2.86 Intermediate consumption in the non-material sphere shown in conversion table 7.4 was equal to the sum of intermediate input from domestic sources and imports; both items are identifiable in the condensed input/output table.
- 2.87 Net exports of non-material services shown in conversion table 7.3 were taken equal to gross exports of non-material services recorded in quadrant II of the condensed input/output table. Owing to lack of data on the commodity structure of imports, it was assumed that imports of non-material services were zero.
- 2.88 The value of non-material services consumed by households in conversion table 7.3 was taken equal to the final non-material services purchased by households only from domestic sources recorded in quadrant II of the condensed input/output table plus components of value-added originating in the household sector shown in separate rows of quadrant IV; a similar procedure was adopted for computation of other final consumption of non-material services in conversion table 7.3 = i.e., value of non-material services purchased by government and recorded in the condensed

input/output table (quadrant II) was increased by value-added originating in the government sector and shown in quadrant IV of the input/output table.

- 2.89 Material input in the non-material sphere shown in conversion table 7.3 was taken equal to the sum of the purchases of material goods by industries producing non-material services from both domestic sources and imports.
- 2.90 The adjustments needed to derive net material product for 1965 are identifiable in the condensed input/output table.
- 2.91 Final estimates of net material product are obtained by adjusting the NMP figure derived in the conversion tables by value-added originating in selected material activities shown, combined with industries of the non-material sphere in the condensed input/output table. In millions of pesos, they are as follows:

1961	12 888.7	+	943.2	=	13 831.9
1965	15 708.4	+	1 834.5	=	17 542.9

Table 7.1. Combessed input output table, Philippines, 1961

1.

					i	1		-				•						
																<b>=</b>	(million pesos)	•
							Trans-	1	Banking,		Γ	ΙГ	4 2 2 6	1	9000			
		ture,		God not Hampface Constant	Constrate.		and a	Electri- in- city, sun	å	Other	å	Comments	Covern Personal Courses	fined fined	S de de	Exports	Total	Total output
		1		Burana	tion	Trade	nios-		7	-TALE	_	- Section	expen-	forme				(a+e)
	Code		4			'n	4	+	Н	H	3	_		9	9	9	3	9
Agriculture, fishing	<b></b>	75.2	1.1	574.1		5.4				7.1	665.1	2203.3	36.5	100.6	749.2	164.2	3274.0	9939.9
Mining	2		2	52.3	6.2		0.3				59.8			7.3	3.6	156.5	167.4	257.2
Memilacturing.	•	273.8	16.8	2031.5	38.7	13.9	150.1	27.5	5.6	32.4	1590.3	4914.3	352.2	723.3	448.9	740.4	1179.1	8769.4
Construction	4	20.7	6.7	18.6	13.0		37.8	3.5	9.0	23.7	124.6	195.5	9.89	76.5	58.5		398.8	\$23.4
Trade	~	183.3	28.9	658.7					38.4		909.3	810.3	29.5	208.7	161.9		1210.1	2119.4
Transport and oceanication	•	29.7	3	93.1	5.8		3.6	2.8	9.6	9.8	159.5	1485.6	34.0	180.7	161.9		1862.2	2021.7
Electricity, gas and water	-	2.1	1.6	0°0	1.2	5.7	1.2	20.9	1.7	10.3	134.7	72.3	87.4	6.1	9.0		166.4	301.1
Banking, insurance and real estate	•	845.9	24.7	1.018	131.8	22.7	78.0	34.2	37.6	7.08	2064.7	9.766	69.5	175.0		122.3	1361.3	3426.0
Other services	9	330.5	10.7	269.0	1.2		22.4	1.6	11.9	32.8	688.1	563.1	49.9	10.0	3.1	108.9	735.0	1423.1
Sub-total	4	1769.2	100.6	359744	6*161	L*9 <del>†</del>	293.4	90.5	104.4	196.8	6396.9	11239.2	727.0	1488.4	1587.4	1312.3	16354.3	22751.2
Imports	-	125.4	17.6	479.1	53.8	5*6	90.9	9.5	4.3	10.1	19.9	446.3	75.1	271.5	124.1	8.0	937.0	1656.9
Indirect texes less subsidies		15.7	9.0	543.8							566.5	252.6	6.1	70.7	51.5		301.5	948.0
Depressation	A	86.5	8.4	166.6	190.1	36.8	665.2	17.9	6.7	37.0	1227.2	72.7	8.1				80.8	1308.0
Compensation of	Ħ	1164.3	54.2	562.9	66.1	268.9	190.6	10,1	8.9	496.2	496.2 2926.2	36.8	712.4				749.2	3675.4
Profits	,	778.8	25.4	3421.6	35.5	1757.8	841.6	143.1	3229.7	661.0	661.0 10914.5							10914.5
Total input (A+B+C+D+E+F)	9	6*666	227.2	<b>9.69.4</b>	\$23.4	2119.4	2021.7	301.1	3426.0	1423.1	22751.2	1423.1 22751.2 12047.6		1529.3 1830.6 1763.0 1332.3	1763.0	1332.3	18502.8 41254.0	41254.0

Ŕ

Table 7.2. Derivation of net material product from data on value-added, Philippines, 1961

					(md.	(mdllion pesos)
	Gross domestic product	Consump- tion of fixed assets	Net domestic product (1 - 2)	Value-added in the non- material sphere	Value of non- material ser- vices consumed in the material sphere	Net material product (3-4+5)
Code	1	8	3	4	5	9
Agriculture, fishing and forestry	2045.3	86.5	1958.8		1184.5	3143.3
Mining 2	109.0	20.4	9.88		35.4	124.0
Manufacturing 3	7-71.05	166.6	8°2067		1079.1	5986.9
Construction 4	291.7	190.1	101.6		133.0	234.6
Trade 5	2063.5	36.8	2026.7		21.7	2048.4
Transport and communication 6	1697.4	665.2	1032.2		100.4	1132.6
Electricity, gas and water 7	201,1	17.9	183.2		35.8	219.0
I. Material sphere	11482.4	1183.5	10298.9		2589.9	12888.8
Banking, insurance and real estate 8	3317.3	<i>L*</i> 9	3310.6	3310.6		
Households	109.5	72.7	36.8	36.8		
Government services	720.5	8.1	712.4	722.4		
Other services 9	1216.2	37.0	1179.2	1179.2		
II. Non-material sphere	5363.5	124.5	2239.0	5239.0		
III. Total (I + II)	16845.9	1308.0	15537.9	5239.0	2589.9	12888.8

Table 7.3. Derivation of net material product from data on final uses, Philippines, 1961

							(sosed notifies)
Categories of the	9	Final expenditures on non-material services	Consump- tion of fixed assets	Material inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere	Ü	Categories of the MPS
		2	3	7	5	9	
Plan Consumpt for or							
penditures of residential households	12047.6	1,667.4				10380.2	Personal consumption (1 - 2)
Other final consumption	1529.3	939.6		152.6	124.5	8*996	Other final consumption (1-244+5)
Gross fixed capital formation	1830.6	185.0	1308.0			337.6	Net fixed capital cornation (1-2-3)
Capital formation in stocks	1763.0	3.1				1759.9	Capital formation in stocks (1 - 2)
Exports mims imports	-324.6	231.2				-555.8	Exports mims imports (1 - 2)
Gross domestic product	16845.9	2926.3	1308.0	152.6	37,5	12888.7	Net material product (1-2-3+4,+5)

Table 7.4. Derivation of net material product from data on gross output and intermediate consumption, Philippines, 1961

(million pesos)	Categories of the MPS		Global product (1 - 2)	Intermediate mater- ial consumption including deprecia- tion (1-3-4+5)	Net material product (1-2+3+4-5)
	<b>ಪ</b>	9	18284.3	5395.5	12888.8
	Consumption of fixed assets in the mater-	5		1183.5	1183.5
	Consumption of non-material services in the material sphere	4		2589.9	2589.9
	Intermediate consumption in the non-material sphere	3		315.6	315.6
	Gross output of the non- material services	2	1.6793		5679.1
	the	1	23963.4	7117.5	16845.9
	Categories of the SNA		Gross output	Intermediate consumption	Gross domestic product

	A continuity						Trans- Sto-	to-	Benk-	-	-			ľ		•	Final	9 T	d e m a n d			
	ture,				Electri-		port		ing		4				Tivate	å	_	ļ				
	fishing	Mining	Marrufao- turing	fishing Mining Manufac-Construc-	city, gas and	Trade			ther.	Keal ment		1- E			1	ourrent capital			Kports	Exports Imports	Total	output
	forestry			_	vater		rice-	the tree	rance	<u> </u>	800	940	<u>.                                    </u>	output •	di ture	expen- forme-		fortes			(less	(a+b)
Code	-	2	~	4	,	9	П	-	٩	의	  =	2	=	3	4	3	-	9	9	9	( <b>q</b> )	3
Agriculture, fishing and forestry	236.9	5.9	3115.4	8.0	6.3		9.0			•		163.4	4.5	3543.4	2363.4	6.2		109.1 1131.0	131.0	269.1	3340.6	6884.0
Manine		2.1	292.4	26.6			0,1			6.0	•	9.0	0.1	328.8	15.7	6.3		3.7	3.7 336.0	276.9	82.8	406.6
Manufacturing 3	_	87.5		722.6	6.59	96.3	307.4	1.2	29.9	65.5		563.2	18.2	4724.8	7436.8	201.8 1488.3	1488.3	17.7	77.7 1166.7	3807.5	6563.8	11286.6
Construction	<u>-,.</u>	0.3	3.2	26.7	9.0	3.2	6.0	0.1	0.4	38.4		3.7		77.7	3.6	39.3	39.3 1825.4			-	1868.3	1946.0
Electricity, gas and water 5	.3.	3.1	62.1	3.0	27.6	28.4	5.4	2.2	4:1	13.7		35.8	0.4	185.1	123.2	25.0			6.7	1.1	153.5	338.6
	~ —	14.2	768.4	125.5	13.8	18.7	59.3	0.1	6.1	12.0		143.0	4.2	1274.4	1916.3	37.6	213.2		367.3		2534.4	3808.8
Trade and communication 7	25.8	9.6	214.1	27.4	6.9	72.7	75.2	0.4	19.5	5.5	_	56.8	1.7	5.11.5	5.695	41.8	38.2		181.4	19.4	811.5	1323.0
Storage and	10.0		7.5	0.5	0.7	22.6	3.3							4.6	15.3	3.2			, <u> </u>		18.5	63.1
Banking and	46.8	6.6	101.3	17.6	4.7	65.7	22.5	2.1	9.6	37.9		37.0	0.4	348.5	387.5	93.7			10.1	16.3	475.3	823.8
•		5.7	68.5	7.4	2.7	243.2	9.5	6.1	30.9	22.0		74.1	0.3	511.0	1337.1	6.7	480.3		277.2	52.5	2048.8	2559.8
Government services 11												_				1559.5					1559.5	1559.5
Private services 12	43.6	14.7	277.0	6.11	12.1	220.0	55.6	7.7	75.0	8		271.3	3.7	1132.7	2279.9	75.7			541.5	285.2	2611.9	5744.6
Unallocated 13	10.3	1.5	41.2	3.1	9.0	12.3	5.1	1.2	1.2	9.0		3.2		80.5	160.4	1.6		3.8	202.7	97.6	280.9	361.4
Total intermediate consumption	994.5	148.5	7250.1	1046.3	130.0	783.1	553.3	15.1	174.7	276.8	13	1352.1	33.5 1	12758.0 16607.0	0.7099	2098.4 4045.4	4045.4	194.3 4220.6		4815.9	22349.8	35107.8
Wages and salaries E	2834.7	93.0	1189.1	470.6	76.3	1310.3	384.2	19.2	9,092	520.7	1559.5 1205.6	9.50		9923.0	_							
Depresiation C	289.9	26.5	278.8	45.4	31.6	91.9	91.0	3.2	24.1	205.7	_	9.6	_	1184.9						-		_
Other value added D	D 2772.5	152.1	1995.4	364.6	78.9	1533.5	246.2	24.5	320.5	1446.5	<u> </u>	1050.7	17.6	10003.0					_			_
Indirect taxes less subsidies I	- 7.6	-13.5	575.2	22.1	21.6	0.06	48.3	1.1	43.9	110.1		36.4		927.8						_		
Statistical disorepancy 7	~_											<del>- : :</del>	310.3	330.3								
~	6 6884.0		406.6 11288.6	1946.0	338.6	3806.8	1323.0	63.1	823.8	2559.8	2559.8 1559.5 3744.6		361.4	35107.8						_		

(million pesos)

		Consumo-	Net	Value added material	Value of non-	
	Gross	tion of	domestic	in the non-	_	Net material
	domestic product	fixed	product (1 - 2)	material sphere	sumed in the material	product (3-4+5)
900	ſ	c			aphere	
		3		4	7	٩
Agriculture, fishing and forestry	5889.5	289.9	5599.6		141.3	5740.9
Mining 2	258.1	26.5	231.6		25.8	257.4
Manufacturing 3	4038.5	278.8	3759.7		488.0	4247.7
Construction 4	899.7	45.4	857.3		106.0	963.3
Electricity, gas and water 5	208.6	31.6	177.0		20.1	197.1
Trade 6	3025.7	91.9	2933.8		541.2	3475.0
Transport and communication 7	769.4	91.0	678.4		92.7	771.1
Storage and warehousing 8	48.0	3.2	44.8	<del></del>	11.1	55.9
I. Material sphere	15137.5	855.3	14282.2		1426.2	15708.4
Banking and insurance 9	649.1	24.1	625.0	625.0		
Real estate 10	2283.0	205.7	2077.3	2077.3		
Government services 11	1559.5		1559.5	1559.5		
Private services	2392.8	99.8	2293.0	2293.0		
Unallocated 13	327.9		327.9	327.9	<del></del>	
TT Work material						
sphere	7212.3	329.6	6882.7	6882.7		
III. Total (I + II)	22349.8	1184.9	21164.9	6882.7	1426.2	15708.4

Table 7.7. Derivation of not material product from data on final uses, Philippines, 1965

(million pesos)

Categories of the SNA		Final expenditures on non- material	Consump- Material tion of in the fixed non- assets material	Material Inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere	Gat	Categories of the MPS
	1	2	3	7	5	9	
Final consumption ex- penditures of resi- dential households	16607.0	4164.9				12442.1	Personal consumption (1-2)
Other final consumption	2098.4	1737.2		1190.0	329.6	1880.8	Other final consumption (1-2+4+5)
Gross fixed capital formation	4045.4	480.3	1184.9			2380.2	Net fixed capital formation (1-3)
Capital formation in stocks	194.3	3.8				190.5	Capital formation in stocks
Exports minus imports	-595.3	589.9		***		-1185.2	Exports minus imports (1-2)
Gross domestic product	22349.8	6976.1	1184.9	1190.0	329.6	15708.4	Net material product (1-2-3+4+5)
			:				

Derivation of net material product from data on gross output and intermediate consumption, Philippines, 1965 Table 7.8.

Gross output of the non-

Categories of the

material services

Intermediate material consumption including depretion (1-5-4+5) Global product (1-2) (million pesos) Categories of the Not material product (1-2+3+4-5)26058.7 10350.0 15708.7 sumption of fixed assets in the material 855.3 855.3 sphere Conmaterial services in the material Consumption 1426.2 1426.2 of nonsphere in the non-material sphere Interme-diate consumption 1837.1 1837.1

9049.1

35107.8

Gross output

12758.0

consumption

Intermediate

9049.1

22349.8

Gross domestic

product

## 8. Zambia

#### Sources of data

- 2.92 The main sources of data for derivation of the estimates of net material product of Zambia were the input/output tables (tables 16a and 16b) and (for 1971) also the commodity balance (tables 5.6 and 5.7) in the special publications, National Accounts and Input-Output Tables, 1969, and 1971. 10/ Certain other supporting tables in those publications were also used.
- 2.93 The original input/output tables for 1969 and 1971 were condensed into tables of 17 sectors, 10 of which relate to the non-material sphere. It proved to be impossible to separate from "personal and household services" material services such as dyeing, cleaning, repairs etc. Unspecified items distinguished in the original input/output tables were arbitrarily allocated to the non-material sphere.

#### Derivation of gross domestic product

- 2.94 It was not possible to obtain information needed to reclassify by industry of origin customs duties relating to final products and shown in quadrant IV of the input/output table for 1969. Therefore, it was assumed that all those customs duties related to material goods; they are arbitrarily allocated to gross domestic product of trade in conversion table 8.2. Gross output for 1969 in the SNA sense shown in conversion table 8.4 is computed as the sum of "total gross output" shown in the condensed input/output table and customs duties recorded in quadrant IV of the input/output table. Intermediate consumption in the SNA sense for 1969 shown in conversion table 8.4 is computed as the sum of intermediate input from domestic sources and from imports.
- 2.95 Gross domestic product for 1971 was derived from appropriate categories of the condensed input/output table supplemented by data in table 8.5a, entitled "supply and disposition of goods and services". The latter source contains data on imports not shown explicitly in the input/output table, and on import duties. Gross domestic product derived from components of value-added shown in the input/output table was adjusted upwards by the amount of customs duties. A similar adjustment was introduced for gross output of goods and services in conversion table 8.8 where gross domestic product is obtained as the difference between gross output and intermediate consumption. In conversion table 8.7 where gross domestic product is shown by categories of final demand, net exports were derived from data contained in the table "Supply and disposition of goods and services".

<sup>10/</sup> Government of Zambia, Central Statistical Office.

#### Derivation of net material product

2.96 The adjustments included in the conversion tables are standard. Some explanatory notes relating to the computation of certain adjustments are given below.

### Calculations for 1969

- 2.97 The value of non-material services consumed by enterprises of the material sphere is defined in table 8.2 to include both domestically produced and imported services. Data on the latter item were extracted from table 16b, "Input-output table, imports", published in National Accounts and Input-Output Tables, 1969. The data on imports of non-material services by industries and sectors of final demand are shown in a separate line in the condensed input/output table.
- 2.98 Material input in the non-material sphere shown in conversion table 8.3 is computed as the sum of material consumption from both domestic sources and imports.

### Calculations for 1971

- Two supporting tables (tables 8.9 and 8.10) were compiled to estimate cost structure of secondary output (material goods) produced by non-material activities and of secondary output (non-material services) produced by industries of the material sphere. Data on gross output of subsidiary activities shown in those tables were extracted from table 8.5a, "Supply and disposition of goods and services". It was assumed that the cost structure of secondary output was similar to that of the industries which produced such products as their principal output. data in tables 8.9 and 8.10 were used to adjust the original input/ output table data on value-added by industry to a commodity basis. Thus, value-added originating in non-material services shown in conversion table 8.6 includes subsidiary non-material output of industries of the material sphere and excludes material subsidiary output of industries of the non-material sphere. The adjustments relating to material goods produced by non-material services, and vice versa, are shown explicitly in conversion tables 8.7 and 8.8.
- 2.100 Purchases of non-material services by industries of the material sphere shown in conversion table 8.6 are computed as the sum of appropriate figures in the condensed input/output table 8.5 and consumption of non-material services by subsidiary material activities of non-material industries (see table 8.9).
- 2.101 Input of material goods by industries of the non-material sphere shown in conversion table 8.7 is computed as the sum of appropriate figures in the condensed input/output table and material input into subsidiary non-material activities of industries of the material sphere, less material input into subsidiary material activities; those data are shown in tables 8.9 and 8.10. It should be noted that material input includes imports of

- "other goods and services" by government services because it was assumed that they consist exclusively of material goods. That item is shown in table 8.5 in the cell at the intersection of row B and column "b".
- 2.102 Gross output of non-material services shown in conversion table 8.8 is computed as the gross output of non-material industries shown in the condensed input/output table, increased by import duties on non-material services and gross output of subsidiary non-material activities of material industries, and reduced by gross output of subsidiary material activities of non-material industries.
- 2.103 Final expenditures on non-material services shown in conversion table 8.7 is computed as the difference between final consumption of producers of government services (see table 8.5) and the material part of "other goods and services" produced by general government; the latter item is shown in table 8.5a.
- 2.104 Final expenditures on non-material services by households shown in conversion table 8.7 is computed as the sum of purchases of non-material services (commodities), and consumption by households of "other goods and services", except for the direct purchases of goods and services by residents abroad. It was assumed that the latter item consists exclusively of material goods. Detailed data for compilation of final consumption of non-material services by households are extracted from table 8.5a.
- 2.105 Net exports of non-material services were computed as the difference between exports and imports of non-material services (commodities) shown in table 8.5a; exports and imports of "other goods and services" were disregarded because it was arbitrarily assumed that they consisted exclusively of material goods.

				-							-					,							
	Agrica								ż		હ			Tee-				E.	Final	Q 0	6 H 6 D G		
	forestry forestry and flabing	Mining try and quarry- ng ing	Namufac- turing	Electri- city, gas and water	Trade	Cometruc- tion	Hotele and restau- rants	tion tion	nance and insu-	Real Beat of the Part of the P	Busi-mer ness adm ner- nis	ment Edu admi- tion nistra-and tion her	Educa-tio tion and and bus health nes	tional al an and non-house busi- hold ness ser- services	<b>1</b> 0 1	Un- Total mpeci-inter- fied mediate items output	ate wate tion	2 1 1 2 1 2 E	Gross fixed t capi- tal forma- tion tion	0 44 8	Exports	fotal	Total output (a+g)
Ű	Code	2		7	2	9	7	9	9	2	11	2	Ħ	14 15	91	9	(9)	-		9	Θ	3	a
Agriculture, forestry and fishing	1 0.14	2.11	13.68									0.57	-		- 6	- 0	30.85		0.0	<u> </u>		3	8
Mining and quarrying	2 0.19	77.77	1.85	1.96		1,10		0.05				0.03	-		•				0.90		- 20	789.62	822.97
Manufacturing	3 5.00	17.19	30.23	2.11	4.17	16.45	3.79	9,6	0.97	3.01	09.0		6.34 0	0.96	1.23 1.	_	_					140.90	246.13
Electricity, gas and water	1.20	16.81	2.02	0.03	2.25	0.29	0.32	2.56	8:	0.19	0.10	9.	1.28	0.17	0.33		34.53		_				
Trade		32.52	17.78	0.16	8.93	4.04	0.73	0.19					_			6.75 79.	_	8	25.0			76.30	155.70
Construction			2.63	0.30	1.65	10.51	0.36	2.18	0.37	2.48		_						25	87.29	9 9		87.21	146.33
Notels and restaurants	-	°,0	0.10		0.53		0.25	0.15	0.25	0.05	0.10	1.10 0.	0.50	0.01	0.02 0.	0.40		-33			4.65	12.98	18.44
Transport, communica-	8 0.45	5.47	5.15	0.12	20.37	2.97	8.5	3.66	680	1.03	2.25	1.57	1.84	0.29	0.23	2.55 49.	13.78	1.40	9		, ž		8
Finance and insurance	90.0		1.27	0.05	2.42	2.00	0.20	<u> </u>					-		_				<u></u>		5 6	6 5	8 8
Real estate	30 0.50		1.99	0.08	9.32	1.48	69.0	_				_	_	0.23 0.	_			25	_		<u>}</u>	22.32	44.13
erioss	=	5.96	3.61	0.13	1.62	2.85		0.37				<u>.</u>			0.12 2.			2				01.1	19,88
Covernment administration	12														· ·		- 8					3	
Education and health	13													_		1.8	1.20	8 2.5	٠ ۲ و			\$ F	3 2
Recreational and non-business servi-										••													2
888	7							-				•	99.0		-2	2.46 3.	3.14 2.87	37 4.60	,9.			7.47	10.61
Personal and house- hold services	22	0.39	0.05	0.01		0.05	0.01	0.04	0.01	9.00	0.01						15.7					3.5	32 71
Unspecified items	16 2.01	22.30	9.81		4.35	0.13						5.70 1.	1.20	3.48 0.	0.29	58.25	25 0.02	. 0	3.8			3.02	61.27
Total intermediate consumption from 1/	A 11.67	178.22	99.17	4.85	55.61	41.87	62.9	27.11	20.66	11.91 6	6.32 15	15.34 17.30	<del></del>	7.06 2.	2.81 41.59	59 538.27	27 323.53	53 131.00	0 151.39	-51.63	650.70	1404.79	1945.06
Compensation of employmes	B 10.10	93.93	39.96	3.67	43.13	48.01	3.66	30.53	8.36	3.79	7.16 43	43.20 43.62		2.53 13.16	28	194.81		-					18 702
Consumption of fixed capital formation	2, 5, 55	22,28	7.86	6.40	8	10.84									8	36 35	· 'Y						10**(/
Customs duties	D 0.14		0.88		80.0	0.43	`	1.1			 }				0.29		22 22.96	9	1,67	7.13		77.76	07.07
Royalties, excise duties, and other indirect taxes	FA)	217.88	31.87	0.28	7.00	0.22				.79	<del></del>				<u> </u>	,		<u> </u>				2	, , , , , , , , , , , , , , , , , , ,
Subsidies	F 5.24		1.08	0.02	5.12	0.12	0.05	8.09	_	1.99			_			21.71			_				2,7
Operating surplus		.,	34.37	5.84	48.93	8.08			19.94 21		5.71	<u></u>	3.58 0.	0.77 0.	0.18	507.78	. 82						507.78
Imports	н 9.28	27.97	44.74	19.23	7.66	37.00		9.96		-	0.01 10.	10.46 7.	7.54 0.	0.16	19.39	192.40	40 111.66	يو.	98.54	11.30	12.00	233.50	425.90
Of which Services	н	6.40			2.70	8.0		0.0		-		4.83		70.0	8	, y	2						;
Total input 2/ (A+B+C+D+E+F+C+H)	11 06 1	822.97	246.13	38.24	155.70	146.33	18.44	1	50.86	44.11 19	19.88 69.	69.00 72.89	+~	10.61 16.35	+~	_		5 131.00	0 253.60	-39.40	962.70	1666.05	3609.11
	$\frac{1}{2}$						1		$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	$\dashv$	$\dashv$	-	$\dashv$	_					

1/ Excluding customs duties on intermediate consumption.
2/ There is a small discrepancy in the original input-output table between "total input" and "total output" figures.

Derivation of net material product from data on value-added, Zambia, 1969 Table 8.2.

			A		(kwac)	(kwacha million)
	Gross domestic	Consumption of fixed	Net domestic	Value- added in	Value of non-material	Net material
	product	assets	product	the non-	services	product
			(1-2)	material	consumed in	(3-4+5)
				sphere	the material	
	1	2	3	#	5	9
Agriculture, forestry and fishing	91.69	5.50	63.66		2.59	66.25
Mining and quarrying	616.78	22.28	594.50		57.53	652.03
Manufacturing	112.22	7.86	104.36		15.83	120.19
Electricity, gas and water	14.16	04.4	92.6		0.27	10.03
Trade	120.20 1/	Ot-t	115.80		20.94	136.74
Construction	61.46	10.84	56.62		6.71	65.33
Transport and communication	14.10	8.73	35.37		10.57	45.94
I. MATERIAL SPHERE	1044.08	64.01	980.07		114.44	1094.51
Hotels and restaurants	11.65	0.59	90°TT	90°TI		
Finance and insurance	30.20	1.90	28.30	28.30		
Real estate	32.20	7.94	24.26	2 <b>4.</b> 26		
Business services	13.55	99.0	12.87	12.87		
Government administration	45.20	1	43.20	43.20		
Education and health	148.05	98.0	47.19	47.19		
Recreation and non-business services	3.39	90.0	3.31	3.31		
Personal and household services	13.54	0.20	13.34	13.34		
Unspecified items	0.29	ı	0.29	0.29		
II. NON-MATERIAL SPHERE	196.07	12.25	183.82	183.82		
III. TOTAL (I+II)	1240.15	76.26	1163.89	183.82	74.411	1094.51

1/ Including customs duties on final demand, while custom duties paid on intermediate consumption have been included in the gross domestic product of the purchasing sectors.

Table 8.3. Derivation of net material product from data on final uses, Zambia, 1969

	Comprara 1900	6061				(kwacha	(kwacha million)
Categories of the SNA		Final expenditures on non- material services	Consumption Material of fixed inputs i assets the non- material sphere	Material inputs in the non- material sphere	Consumption of fixed assets in the non- material sphere	Cate	Categories of the MFS
	7	5	3	‡	5	9	
Final consumption expenditures of residential households	458.15	83.76				374.39	Personal consumption (1-2)
Other final consumption	131.00	320.30		95.01	12.25	96.711	Other final consumption (1-2+4+5)
Gross fixed capital formation	253.60	10.00	76.26			167.34	Net fixed capital formation (1-2-5)
Capital formation in stocks	-39.40					-39.40	Capital formation in stocks
Exports minus imports	436.80	-37.42				474.22	Exports minus imports (1-2)
GROSS DOMESTIC PRODUCT	1240.15	176.64	76.26	95.01	12.25	1094.51	NET MATERIAL PRODUCT (1-2-3+4+5)

Table 8.4. Derivation of net material product from data on gross output and intermediate consumption, Zambia, 1969

(kwacha million)

Categories of the SNA	ie SIVA	Gross output of the non- material sphere	Intermediate consumption in the non-material sphere	Consumption of non- material services in the ma- terial sphere	Consumption of fixed assets in the material sphere	క	Categories of the MFS
	ı	5	3	7	5	9	
Gross output	1970.821/	363.41				14.7091	1607.41 Global product (1-2)
Intermediate consumption	730.672/		167.34	114.41	64.01	512.90	Intermediate material consumption including depreciation (1-3-4+5)
Gross domestic product	1240.15	363.41	167.34	क्त.	64.01	1094.51	1094.51 Net material product (1-2+3+4-5)

1/ Including customsduties on final demand.

2/ Excluding customsduties on intermediate consumption.

						-		-	_	Γ		_	_	_	Inter	mediate c	consumption	_	Final denast				
		Agricul-			Dectri-		-1	Rotelle 1	Trees.	-14		Part - Bence-	tion a	1	<u>.                                    </u>	Produ-	Profu- cers of Producers	Frivate fine)	Covern-	4	Pixed		
		forestry		Manufac	of ty,	ş	Construe-			•	7	These tion	Page 1	- Pone	3	-	of His-			- Oreses	Capital	į	Total
		Pahlag			i								th services	4				expendi-	- Theory	tooks	tion		
	100	-	2	-	-	5	9	-	H	9	91	n n	7	7	3	2	3	9	9	9	9	(4)	3
Agriculture, forestry and flabing	-	5.5		2	•	1.0		6.5	•				•	-	37.6	3.2	0.1	135.5	•		•	9.9	900.
Mining and quarrying	~	. 1	9.08	7.0	6.9	6.0	6.1		٠,	,	• • •	•	_	_	35.7		_	0.2	•	\$		456.2	9.96
Manufacturing	~	17.2	97.1	39.1	7	35.9	<b>49.</b> 3	2.5	24.6	2.1	10.7	3.4 0.2	١	1.9		£ 2.	3.6	196.5	•	27.9	136.1	9.5	711.5
Electricity, gas	4	,	12.0	2.0	ŝ		0.4	ě.	0.2	0.2		•	'	6.7	17.2		,	ŝ		•	•	0.2	3.6
44		0.4	37.3	17.1	0.7	11.2	13.0	6.0	7.6			0.7	•	6.0		_	1.3	41.6	•	2.2	-	•	208.4
Construction	٠	9.0	5.7	6:0	•	9.0	22.52	•	0.4	77.	-	•	•	٠			•	,	٠	-5.0	_	0.2	212.1
Botels and restuarants	-	•	•	•		2.2		0.1	7:	5.	0.1	4.0	•	-5	-	-	•	6.2	,	•	•	•	17.5
Transport and	•		6.9	E.S	6.2	5.5	6.9		7.9			-	•		41.7	13.5	•:3	<u>.</u>		3	<b>÷</b>	16.9	115.6
Pinance and insurance	•	1.9	33.6	9.1	6.0	4.7		6.3	2.9		1.1	9.0	0.7					<b>6:</b>		•		1.0	51.6
Bel estate	2		6:0	2.5	7:	6.7	0.7	0.2	7.6	•	1.6	1.3	6.7	:			•	45.5	,	•	,	,	67.9
Besinees, services	=	1.6	5.2	6.9	0.2	9.5	5.9	6.5	2.2	0.0	1.0	1.5 0.1	0.2	6		9:0	63	0.5	•	•	9	2.2	<b>‡</b>
Efecation and health	21	,	•	٠		0.2	•	•		7.	<u>'</u>		•		3	:		•		•	•	•	2.0
Regression and non-	2		•	•	•	•		•			<del>-</del>						·			•	•	,	5.9
Personal and household	7	,	47	,	6.3	10.3	6.0	7			9.0						6	-		_		0	X
Bassoffied items	'n	,	6.7	2.6		1.2	5.5		;		_		•				•				,	0.2	10.2
Total consumption of commodities	1	32.0	207.5	166.9	3	7.06	m.9	\$	5.9	9.8	22.0	9.7 0.4	2.5	2	743.6	13.3	3	1.1	Ŀ	3:5	369.3	63.9	2246.9
Consensation of other goods and services	•	•	2.0	•	•	•	7.0	,	0.1	•	•			•	2.8	33	•	42.9	272.6	_		1.9	328.3
Total intermediate consumption	0	32.0	\$09.5	166.9	£.	8.	112.6	6.4	36.0	9.8	22.0	9.7	1.5	<u></u>	746.4	118.6	£3	514.0	372.6	4.5	369.3	900.6	2575.2
Compensation of employees	A	17.5	126.1	9,3	2.	ŝ	61.2	;	3	12.2	4.4 12.2	.2	0.4	3.6	69.2	136.3	23.6	<u>'</u>	<u> </u>	<u>'</u>			\$63.1
Operating surplus	*	120.1	3.6.	27.9	6.9	8	10.6	3		27.5	2.4	2.1 0.3	9.1			,		•	•	•	•	•	336.6
Communition of fixed outiful	-	2.5	2.5	14.9	4.6	6.7	12.5	6.3	10.9	3	9.5	9.0	0.1	63	135.9	ŝ	6.3	•	•	'	•	,	166.3
Indirect tames, net	•		33.9	0.04	0.4	-11.5	2.0	,	-3.0	4.0	-0.6	•	•	•	55.7	•	'	•	•	•	•	•	7.56
Potal input (G-B-E-P-G)	-	166.8	501.5	326.2	22.1	202.7	197.1	17.0 1	117.1	90.5	60.7 24.	24.8 0.9	2.1	6.7	1.697.7	285.0	70.2	514.0	272.6	47.4	369.3	900.6	3716.0

	$\parallel$							7	A cook	of spode and services	17.000									_	$\ $	Disposition of so	ode end	a sizza	extine (stoduces	4	(88
	Acrion	T.				Hotele	100			3	8	-	Parado		140 Sant-	- Sota		Table 1		100	Interne	Internet	7	Covers			
	forward,	Mining and quarry	Manufac Surfag	Electri- city,	Trade	Con- tion	111	E .		i i i	Net-Photo pres tion ser- and		n- el and house-	d -			100	Import			diste con-	diste con-	7 0		-1 5 E		Poort
		<b>1</b>	•	ri te					egga.			lth baciness	-40 Per			1			- and out		of govern	of private	1100		toot.	i s	
Code	4	2		-	7	4	<u> -</u>		-	71 91					4	9	a	a	9	3	9	9	4		9	3	
A. Commodition	_														_								_	_			
and flighting 1	166.8		•	•	6.0	•	•	•		9.6	<u> </u>	<u> </u>		<u>'</u> -	<u>'</u>	168.3	32.3	-	9. 9.	37.6	3.2	0.1	135.5	,	17.4	,	9.9
Mining and quartying 2	•	<b>1</b> .7	0.5	,	,		•	6.3	•	<u>.</u>	<u>.</u>			<u>.</u>	<u>'</u>	491.5	_	1	496:6	_			0.2		3	•	456.2
Menufacturing 3	_	0.1	310.9	•	9.9	,	•	0.1	_	0.1	<u>.</u>		<u>.</u>	_		321.1	<del>-</del>	. ×			54.9	 •:	196.5	•	27.9	136.1	6.2
Electricity, and	'	1.7		•		0.4	_	_	<u>.</u>		_					-	7 66				•		,				
4	•		12.1	Ž	180.9		-	0.7		6.3	_		_	9.6	_	8	_	· ·	e e		•		, ,		. :	. :	7.0
Construction	2.7		7.		i		•	7	•			2.2			9,0	212.1	-	•	22.1		; ;	ì .	} ,		, 0	1, 9,	0.5
Hotels and restaurants 7		,	•	•	•	•	16.7	9.0				<u>'</u>	<u>'</u>		•	17.5		•	17.5	_	6.9		6.2			•	
Transport and occurations 6	•	0.5		•	•			301.6	_				•		-	101.6	13.6		9751	72.7	13.5	ď	ş			-	
Pinamos and insurance 9	•	٠			•	•	•	•	49.6	<u>'</u> 			<u>-</u>	<u>'</u>	<u>.</u>	49.6		•	й. 6		0.2		£ 3	,	,	•	1.0
Meal estate 10	•		0.1	٠	•	9.0	0.3	6.3		- 7.65				_	•	6.19	_	•	67.9		0.1		45.5		,	•	,
	•	7.	0.5	,	0.5		,	•	•	<del>7</del>	24.7	_	<u> </u>	<u>'</u>	•	29.1	15.2	٠	<u>‡</u>	_	9.0	0.3	0.2	,	•	0.0	2.2
Bénoation and health 12	. •	_	,	•	•	,	'	•	•	<u>.</u>		- 6.0	_	<u>.</u>	_	6:0	: -	_	2.0	0.4	0.0		0.0		,	•	•
Recreation and non- business services 13	,	,	,	ı	,	,	,	,	•				2:1		•	2:1	*	0.2	2.9	1:1	5.5	•	1.3	,	,	•	
Personal and Bouss- hold services 14		,	9:0		6.7	0.1	,	0.8	,	<u> </u>				.6	•	χ.		•	ξ.		0.0		-		,		
i	•	<u> </u>	0.2	·	•	0.3	'	_		0.3		_		_		9.0		0.5				3	ī .		,	•	2.0
Total commodities A	169.5	501.5	326.3	22.1	202.0 197.9	67.61	17.0	117.3	\$0.5		24.8	3.1 2	2.1	9.7	•	1704.1	8		- 67		115.3	6.3	471.1	•	4.7.4	569.3	493.9
3. Other goods and services							<u> </u>		-					_	ļ.,	L	_										
Produced by government B	15.5	1.6	,		•	15.6	•	6.6				63.2	6.1	143.7	.7	278.5	н	×	278.5	2.8	,		1.1	272.6			,
Produced by private non-profit services C		,	,	,	,	,	1			<u>'</u>	=			<u>'</u>				*	15.9					м			
Demostic services of because of D			•	•	•	•		н				-		77.3	-	14.3		×	14.3	*			3	,	•	•	•
Direct purchases abroad by government					-	,					·					,							,		1 1		
robases 7 resident																1	`		<b>`</b>		```	•	•	•	4	•	
homebolds	_				,	,	,	,	•	<u>.</u>	_		-		•	٠	_	•	•	•		,	•	,	,	•	,
Mass Direct purchases by non-residents 6	•	•	•	,	•	•	•	_	•	<u> </u>				<u>'</u>	•	٠	•	•	•	•	,	,	٠	,		•	•
Ecuseholds in the donestic market		,	,	•	,	,										×	16.3	_	16.3	H	×	*	9.6	<b>H</b>			6.7
Total goods and services	165.0	203.1	326.3	22.1	202.0 213.5	13.5	17.0	177.2	30.5	60.7 24.8	6.7.5		12.9	23.0 144.3		2.9 2012.6			36.7 2575.2	746.4	118.6	6.3		272.6	_	9	ş
							•		1		1.	Ľ		1	1		4	1							4		

. The figures which appear in the commodities - part of the table (Part a) indicate "Eccambold final consumption expenditure in desertie market (note the direct produced a figures at the bettom 1/ This indicates "f. 6.4 million commodities produced by government services which are supplied as follows: agriculture, etc.: 2.7; construction: 0.6; public administration: 0.6; education: 0.7; and 2/ Marketbation of electricity.

Table 8.6. Derivation of net material product from data on value-added by sector, with adjustments for services produced in sectors mainly producing goods and vice versa, Zambia, 1971

(kwacha million)

	Gross domestic product	Consumption of fixed assets	Net domestic product	Value- added in the non- material sphere	Value of non-material services consumed in the material sphere	Met material product (3-4+5)
Code	1	2	3	4	5	6
Agriculture, forestry and fishing 1	134.8	0.5	134.3	ŀ	3.7	138.0
Wining and quarrying 2	292.0	73.4	218.6		24.4	243.0
fanufacturing 3	137.3	14.9	122.4		21.7	144.1
Electricity, gas and water 4	17.6	4.6	13.0		1.7	14.7
Crade 5	111.5	6.7	104.8		34.8	139.6
Construction 6	84.5	12.5	72.0		12.8	84.8
Prensport and communication 7	61.1	10.9	50.2		9.9	60.1
Custom duties on material production	36.3		36.3			36.3
Production of goods by services sectors <u>1</u> /	29	2.6	26.7		2.0	28.7
roduction of services by goods producing sectors	-13.3	-0.8	-12.5		-2.6	-15.1
. MATERIAL SPHERE	891.1	125.3	765.8		108.4	874.2
iotels and restaurants	12.1	0.3	11.8	11.8		
finance and insurance	40.7	1.4	39.3	39.3		
Real estate	38.7	9.5	29.2	29.2		1
Business services	15.1	0.8	14.3	14.3		Į
ducation and health	0.5	-	0.5	0.5		
ecreation and non-business	0.6	0.1	0.5	0.5		
Personal and household services	4.8	0.3	4.5	4.5		
Producers of government services	166.4	30.1	136.3	136.3		ĺ
roducers of private non-profit services	23.9	0.3	23.6	23.6		
Other custom duties	0.4	-	0.4	0.4		ŀ
roduction of goods by services sectors 1/	-29.3	-2.6	-26.7	-26.7		
roduction of services by goods producing sectors 2/	13.3	0.8	12.5	12.5		i
ll. Non-material sphere	287.2	41.0	246.2	246.2		
II. TOTAL (1+II)	1178.3	166.3	1012.0	246.2	108.4	874.2

<sup>1/</sup> see table 8.10.

<sup>2/</sup> see table 8.9.

(kwacha million) Table 8.7. Derivation of net material product from characteristic demand data, Zambia, 1971

Categories of the SNA		Final expenditures on non- material services 1/	Consumption of fixed assets	Material inputs in the non- material sphere 1)	Consumption of fixed assets in the non- material sphere	Cat	Categories of the MPS
	1	2	3	ħ	5	9	
Private final consumption	514.0	0.46				1420.0	Personal consumption (1-2)
Other final consumption	272.6	230.0		128.7	h1.0 2/	212.3	Other final consumption (1-2+4+5)
Gross flxed capital formation	369.3	8.0	166.3			195.0	Net fixed capital 195.0 formation (1-2-3)
Capital formation in stocks	ħ-2ħ					<b>1.74</b>	Increase in stocks
Exports minus imports	-25.1	-54.6				-0.5	Exports minus imports (1-2)
GROSS DOMESTIC PRODUCT	1178.2	307.14	166.3	128.7	41.0	874.2	NET MATERIAL PRODUCT (1-2-3+4+5)

Based on specification of demand according to characteristic products in the material sphere (see table 8.6 for type of material products)

2/ Taken from table 8.6.

Derivation of net material product from data on gross output and intermediate input by sector, with adjustments for services produced in sectors mainly producing goods and vice versa, Zambia, 1971 Table 8.8.

(kwacha million)	Categories of the SNA		Globel product			Intermediate material consumption including depreciation (1-3-4+5)			NET MATERIAL PRODUCT (1-2+3+4-5)
	Cato	9		1596.2			722.0		874.2
	Consumption of fixed assets in the material sphere 2/4/	5				123.5	2.6	9.0-	125.3
	Consumption of non- material services in the material sphere 2/4/	14				109.0	2.0	-2.6	108.4
	Intermediate consumption in the non-material sphere 2/	3				\2.77.	-20.9	10.0	166.2
	Gross output of the non- material sphere 2/	ય	1480.37	-50.2	23.3			, ,	453.4
		1	2049.6 <sup>1</sup> /			871.3			1178.3
	Categories of SWA	<u> </u>	Gross output: - by sectors	<ul> <li>of goods produced</li> <li>by services sectors5/</li> <li>of services produced</li> </ul>	by goods producing sectors 6/	Intermediate consumption: - by sectors	by services sectors 5/	by goods producing sectors $6/$	Gross domestic Product

1/ Including custom duties.
2/ See table 8.6 for sectors belonging to the material sphere and to the non-material sphere.
3/ Implicit from gross output-sectors (column 2) and gross domestic product-sectors (table 8.6).
4/ See table 8.6.
5/ See table 8.10.
6/ See table 8.9.

Table 8.9. Cost structure of gross output of non-material services (non-characteristic products) produced by the material sphere, Zambia, 1971

(kwacha million)

	Real estate	Business services	Personal household services	TOTAL
Agriculture, forestry and fishing				
Mining and quarrying				
Manufacturing	0.3	0.6	<b>3.</b> 8	4.7
Electricity, gas and water			0.2	0.2
Trade	0.2	0.1	1.8	2.1
Construction				
Hotels and restaurants		0.1	0.2	0.3
Transport and communication		0.2	0.2	0.4
Finance and insurance		0.1	0.4	0.5
Real estate		0.2	0.6	0.8
Business services		0.3	0.4	0.7
Education and health				
Recreation and non-business services				
Personal and household services		0.1	0.2	0.3
Unspecified items				
TOTAL INTERMEDIATE CONSUMPTION	0.5	1.7	7.8	10.0
Compensation of employees	0.1	2.2	5.2	7.5
Operating surplus	0.8	0.4	<b>3.</b> 8	5.0
Consumption of fixed capital	0.1	0.1	0.6	o <b>.</b> 8
Indirect taxes, net GROSS OUTPUT	1.5	<b>4.</b> 4	17.4	23•3

Table 8.10. Cost structure of gross output of material goods (non-characteristic products) produced by the non-material sphere, Zambia 1971

(kwacha million)

	Agriculture forestry and fishing	Mining and quarrying	Construc- tion	Transport and communi- cation	TOTAL
Agriculture, forestry and fishing	0.5				0.5
Mining and quarrying		0.2	0.7		0.9
Manufacturing	1.7	0.3	5.7	2.1	9.8
Electricity, gas and water					
Trade	0.4	0.1	1.5	0.8	2.8
Construction			3.0	0.3	3.3
Hotels and restaurants				0.1	0.1
Transport and communication	0.1		0.7	0.7	1.5
Finance and insurance	0.1		0.6	0.2	0.9
Real estate				0.1	0.1
Business services	0.1		0.4	0.3	0.8
Education and health					
Recreation and non-business services					
Personal and household services				0.1	0.1
Unspecified items			0.1		0.1
TOTAL INTERMEDIATE CONSUMPTION	2.9	0.6	12.7	4.7	20.9
Compensation of employees	1.7	0.4	7.2	<b>3.</b> 6	12.9
Operating surplus	12.0	0.2	1.2	0.7	14.1
Consumption of fixed capital		0.3	1.4	0.9	2.6
Indirect taxes, net	-0.4	0.1			-0.3
GROSS OUTPUT	16.2	1.6	22.5	9.9	50.2

# Centrally planned economies

## 9. Hungary

# Sources of data

- 2.106 The basic sources used in the derivation of the estimates of GDP are "Input-output tables of the Hungarian national economy" for 1972 and 1976, which appear in the special publications of the Hungarian Central Statistical Office, Agazati Kapesolatok Merlege. The tables give data for various kinds of activity of the material and non-material spheres of the economy, drawing a clear distinction between the spheres.
- 2.107 The estimates of net material product of Hungary contained in the input/output tables are identical to those in the conventional balances of the national economy. The computation of net material product is based in principle on the methods approved by the CMEA Standing Commission on Statistics, described in Basic Principles of the System of Balances of the National Economy 11/. Hungarian practice differs from those methods in certain details, but for purposes of international comparison, the Hungarian Central Statistical Office eliminates the significant deviations. The data prepared in accordance with the CMEA recommendations are regularly published in the annual publication entitled National Accounts and Balances and in the Statistical Yearbook of CMEA.
- 2.108 In addition, the Hungarian Central Statistical Office regularly carries out calculations showing the performance of non-material activities. The methods used in making those calculations are essentially in conformity with SNA. Input/output tables are compiled both for the material sphere and for non-material activities. The/above publications serve as a basis for the estimates of GDP included here, which were prepared by the Hungarian Central Statistical Office in collaboration with the Statistical Office, United Nations Secretariat.
- 2.109 It should be noted that in 1976 the Hungarian Central Statistical Office introduced some methodological changes into its system of balances of national economy. The data have been revised according to the new methodology back to 1970.
- 2.110 In addition to the above-mentioned publications, the Central Statistical Office made use of condensed input/output tables which embrace industries of both the material and non-material spheres, and of data on business travel expenditures, purchases by enterprises for recreational and cultural services to employees, losses in fixed assets and in stocks, change in stocks of uncompleted investments, the net direct exports of

<sup>11/</sup> Studies in Methods, Series F, No. 17 (United Nations publication, Sales No. E.71.XVII.10).

households, contribution to social insurance by enterprises, and net income of unincorporated enterprises.

### Derivation of gross domestic product

- 2.111 The breakdown of net material product and gross domestic product by kind of economic activity in conversion tables 9.2 9.11 is shown only at a highly aggregative level. At that level, efforts were made to ensure comparability of data with regard to the scope of the branches of/economy. A reclassification of certain activities is necessary at the level of major divisions. A number of such corrections would have been necessary in principle, but considering the weight of certain activities, only two groups of activities were reallocated. The first group is logging, and the second, architectural and similar services, which belong to different major divisions in MPS and in SNA. As a consequence, the Hungarian data converted to SNA concepts are classified according to the major divisions of the ISIC only approximately.
- 2.112 The adjustments included in the conversion tables are in conformity with the conceptual principles of the intersystem comparisons outlined above. Only relatively insignificant conceptual differences were neglected e.g., the differences in the valuation of the consumption of fixed assets. Exports and imports of non-material services are negligible in Hungary and almost counterbalance each other. Therefore, those items were disregarded in the conversion procedure. In most cases, adjustments included in the conversion tables can be identified in the condensed input/output tables.
- 2.113 In table 9.9, all business travel expenditures in both spheres were deducted from final material consumption because it was assumed that the non-material component of those expenditures was negligible. The adjustment/purchases by enterprises for recreational, cultural etc., services to employees embraces not only the material part of those expenditures, as it normally should, but also non-material services. The latter/are excluded because gross output of non-material services used for final consumption (see col. 2) has been computed, including those purchases of non-material services which in SNA are treated as intermediate input. Similar explanatory notes apply to the adjustments in table 9.3.
- 2.114 In addition to derivation of gross domestic product, estimates of total consumption of the population of Hungary were prepared for 1972 and 1976. Tables 9.4 and 9.10, where those estimates are presented, are arranged in such a way that the relationship between total consumption of the population and other categories of final consumption of households, both in the MPS and SNA sense, can be traced.
- 2.115 The estimates of gross domestic product of Hungary derived in the conversion tables are preliminary. They may be revised in the light of the experience obtained in the course of the bilateral work carried out by Hungary and France in the field of MPS/SNA links. 12/

<sup>12/</sup> The two countries were engaged in a bilateral calculation demonstrating conversion of GDP into categories of MPS, and vice versa.

		POTAL	1000/		453589	/5772/	84116	125194	38677	82930	5507	128638	91,8851	23414	2	804.36	198666				•	₹.	Total material	1	187893 30683	8239	<u>.</u>			3
inta/		7	•		229640	7697	741.35	42735	12096	48870	4356	41804	453636	14569	51656	66225	519861						1	+			- 24		million fortate	Interest
Million forints/	ľ	Exports Petal			107603	/691/	596	15807	4128	5346	215		133395	•	•	•	133395					ption	f Other	1	9700	1803	24464		million	BATTTE
¥		Replace sent of losses	<b> </b>		1500		7700	1400	900	80			2100	0	•	•	5100					meterial consumption	Consus- ption of	lation	176193	6436	202351		3936	<u> </u>
		to de la constante de la const	•		573	?	1397	2021	135	1173	•	1909	19380	•	•	•	19380						-		ches	9	ion total		e/ Direct exports /het/	
		Final Use fixed fixed capital for- mation	·		20733	/009/	29860	<b>1</b>	182	3900	3352	18910	107868	•	0	•	107868				•	Derivation of final			Directly from met.branche Material cons.in the non- material subare	epital	consumption		a/ Direct exports /met/	20 Co.
	1	Other final confus- ption	4		4134		3576	1000	279		583		1 00/6	2568	20543	23111	32811 1					Derivet			The from	f fixed	material		Direct e	7 Beroom
	Ì	Pinal Or prion of separation o	•		95037	) 350/	1906	21576	7072	37651	800	14751	78193	12001	31113 2	43114 2	221307								Materi	Cons	Yinel		<b>3</b>	3
	ŀ	DIATE OF DE LA CONTROL DE LA C	٥	-	223949	/4080/	1966	82459	26781	34060	1151		65215 1	8845	2366		479426 2	43157	179558	168508	128638	999287				18063	4150	901	2700	<del></del>
	ŀ	FOR THE TOTAL DISTRIBUTE DE TOTAL OU CO	В							4170 3	370	-	30683 46	2962	1451		35056 47	8239 4		91 9619	-	80436 99				2328 1			•	
972	-	141 141 100 100 100 100 100	F	\$1.0Z0		_		77			97		23029	1068	1366		25463 39	3119		2861		57022 80				1845 2			•	
9.1. Condensed input/output table, Hungary, 1972	-	Communal Other and Annual Intra 18 18 18 18 18 18 18 18 18 18 18 18 18	09+14		7			405			260		7654 23	1854 1	85 1	1939 2	9593 25	5120 3		3835	i					163	168	2	۰	
table, B	ŀ	MATERIAL COMMENDED BY POTAL PROPERTY PR	8		~ 	_					181		-	5923 18	3915		<u></u> -	ļ.,			٠ ج	51 23414			12				2700	
t/output	F		<b> </b>	-	206252	3	28	91816	24998	29890	•	84826	- 434532	- ER	ر 	88.	- 444370	34918	- 149153		538 128638	138 918851			32021	15735	- <del></del>	1001	. E	320763
sed inpu	-	Imports	5		.: •	<u>`</u>	·	-	8	7	2		<b>&amp;</b>		-						- 128638	7 128638					2			
- Conden	-	material produc- tion	8		•		•						1128	8		151	1249	909		1959	•	5507			155	220	•			Z,
Tabile 9.1	-	Distribution of trade	8		_		198	239	3705	61.7	167		14875	1918	225	cv.	17018	1195	13177	51540	•	82930			747	1774	753	6	. •	99999
a a		port miestion	92.406		6062	/33	137	<b>\$</b>	1097	1763	25	4216	13345	8	961	Š	13845	7059	11631	6342	1	38877			239	1707	433	129	289	18473
		ture ture and forestry	03404		20006	/458/	78	3734	<b>6</b>	9991	35	7522	62139	725	470	1195	63334	6515	48125	7220	•	125194			25675	2231	312	169	312	56540
		Construc- tion	8		28865	/338/	704	1069	7007	3887	189	4596	46277	954	273	723	47000	1662	19013	16441	1	84116			3423	2100	670	76	118	36177
	Ī	from which of Togging			/552/	•	हे	/64/	/550/	/210/	<u>کو</u>	/474/	/3205/	/87/	727	/32/	/3540/	/661/	1541/	/192/	•	/5472/			•	7337	•	. 0	•	/2368/
		Industry	2		143717	/2517/	3516	48822	12518	21910	330	65935	296768	2448	2678	5126	301894	17879		78270	1	453589 /			1782	7703	1284	919	1249	138942
	İ		Sode		ಕ		8	03+04	90+60	6	8	. 😉	4	09+14	11+12+	A		4	m	<b>A</b>	•	CeDeBeFeG			<b>.</b>	¥	of	*	4 Jo :	
					•			_			rtion				10+11+12+	OEAL		seets	mlation	terpri 608		45			Tage 2	F.		F.	Part of	A-R-E
				The second secon	Industry	from which Logging	Cometruction	Agriculture and ferestry	freesport and communica-	Distributive trade	Other material production	Imperto	HAPPETAL SPEERS TOTAL	Communal and financial	Other nem-material	KON MATERIAL SPRING POTAL	TOTAL INTERCEDIATE	Consumption of fixed assets	Primary income of population	Primary income of enterprises	Imperte	SOFAL INTOR		Senorradum 1 temes	Not income of unimost- perstant enterprises	Contribution to secial	Business travel expen-	Berriettenal etc.	Lesses in stocks	Hational income /hat

Rable 9.2. Derivation of gross domestic product from data on net material product according to kind of activity, Hungary, 1972

													/Million forints/
Kind of activity, according to MPS classification		Met material product (MPS)	Re-allo- cation between major divia- tions a/	Met material product accor- ding to SNA classi- fications	Value added, net in the non- material sphere	Value of non-mate- rial ser- vices, consumed by the material	Business travel expen- ditures	Purchases by enter- prises for re- creati- onal, cul- tural etc services to em- ployees	Losses in stocks	Net do- mestic product /3+4-5- -6-7-8/	Consump- tion of fixed assets	Gross domestic product /SNA/ /9+10/	Kind of activity according to SNA classification
	Code	1	2	3	4	5	9	7	8	6	10	11	
Industry	/0/	138 942	- 2 368	136 609	í	5 126	1 284	919	1 249	128 334	17 680 <sup>c/</sup> 145 979	145 979	Mining, manufactoring, electricity, gas and water /2,3,4
Construction	/05/	36 177	t	36 177	ı	723	029	92	118	34 590	1 662	36 252	Construction /5/
Agriculture and forestry	/03+04/	56 540	+ 2 368	58 873	1	1 195	312	169	372	56 825	6 714c/	63 574	Agriculture and forestry /1/
Transport and communication	/90*50/	18 473	ı	18 473	ı	500	433	129	289	17 122	7 059	24 181	Transport and communication /7/
Trade	/10/	99 990	,	99 99	1	2 143	753	81	672	63 211	1 195	64 406	Wholesale and retail trade $/6/$
Other material production	/99/	3 771	- 3 771	ı	ı	ı	ı	ı	ı	•	•	•	
I. Material sphere		320 763	- 3 771	316 992	1	6 687	3 452	1,071	2 700	300 082	34 310	334 392	I. Material sphere
Housing, personal, financial and business services /09,14	mcial 3 /09,14/	t	+ 3 771	3 771 <sup>b/</sup>	/ 8 701	/ <sub>0</sub> 151	21.8 <sup>b</sup> /	32	ŧ	12 071	5 728b/	17 799	Financing, insurance real estate and business services, and personal
Other non-material services /10,11,12,13,15,16/	rices	ı	1	ı	28 440	ı	480	ľ	ı	27 955	3 119	31 074	Community, and social services, exert personal services /q. exert 95/
II. Non-material sphere	•	•	+ 3 771	3 771	37 141	151	698	37	•	40 026	8 847	48 873	II. Non-material sphere
III. Total /I+II/		320 763	1	320 763	37 141	9 838	4 150	1 108	2 700	340 108	43 157	383 265	III. Total /I+II/
						و					7.40		

of)
from other material production to business services.

b/ Including the relevant items of "other material production"

c/ Re-allocated are the consumption of fixed assets in "Logging"

Table 9.3. Derivation of gross demestic product from data on net material product according to categories of final use, Emgary, 1972

Final consumption expenditure of government /1+2-4-5+9/ Final consumption expenditure of residential households /1+2-4-5-6-7+8+9/ Gross domestic product /1+2+3-4-5-6-7+11/ Exports minus imports /1+8/ Gross fixed capital formation /1+3+10+11/ Capital formation in stocks /l+10/ Categories of the SMA /Million forints/ 8 693 63 523 11 076 383 265 572 181 401 12 118 /-2 700/ fixed assets and stocks /<del>2</del> 100/ 9 H N fixed capital formsof in-comple-ted /8 304/ 304 10 ı Re-allo-cation of consump-tion of the popu-lation financed by go-vernment /21/ 06-/ /98 /-30 /15/ 30 712 1 by enter-exports
prises
for recrestional holds
cultural less
etc.serdirect
employees 3 936 8 ı 1 108 Business travel expen-ditures 4 150 4 150 Consump-tion of fixed assets in the non-mate-rial 8 239 436 1 803 ø Intermediate distance 722 ಕ್ಷ **30 683** 12 11 Consumption of fixed massets 43 157 43 157 ı Final
use of
material
services 43 114 66 225 23 111 N 64 711 19 380 5 100 4 757 320 763 202 351 24 464 Categories of the MPS Exports minus imports Capital formation in stocks Net fixed capital formation Het material product Final /material/ consumption of the population Other final consumption Losses in assets

/Million forints/ Table 9.4. Derivation of gross domestic product from data on gross output and intermediate consumption, Hungary, 1972

Categories of the MPS		Gross output of the non- material sphere	Inter- mediate consump- tion in the non- material sphere	Consumption of non-material services in the material sphere	Consumption of flxed assets in the material sphere	Busi- ness travel expen- ditu- res	Losses in stocks	Purchases by enter- prises for re- creatio- nal, cul- tural etc. services to em- ployees	Categor	Categories of the SWA
	7	2	3	4	5	9	7	8	9	
Global product	790 213	80 436						1 108	869 541	Gross output (1+2-8)
Intermediate material consumption including depre-	n69 450		35 056	9 838	34 918	150	2 700		1486 276	Intermediate consumption (1+3+4-5+6+7)
Net material product 320 763	320 763	80 436	35 056	9 838	34 918	h 150	2 700	1 108	383 265	383 265 Gross domestic product (1+2-3-4+5-6-7-8)

Derivation of gross domestic product from data on net material product according to types of primary incomes, Hungary, 1972 Table 9.5.

/Million forints/

Categories of the SNA		Conpensation of employees /1+2-5+8+9/	Operating surplus including indirect taxes net /1+5-4-6-7+8+9/	Consumption of fixed capital	383 265 Gross domes- tic product /1+2+3-4-5-6-7+8+9+ 10/
Catego	7	161 450	178 658	15 151	383 265 /1+2
Consumption of fixed capital	of .	i	,	43 157	43 1 <i>5</i> 7
Net in- come of unincor- porated enter- prises in the material	6	18 063 /-32 021/	/-18 063/ <sup>b/</sup> 32 021 <sup>d/</sup>		-
Em- ployers contri- butions to so- cial insu- rence	8	18 063	/-18 063/ <sup>]</sup>		1
Purchases by enter- prises for re- creatio- nal, cul- tural etc. services to em- ployees	7	•	1 108		1 108
Iosses 1n stocks	9	8	2 700		2 700 1 108
Business travel expendi- tures	5	η 150	ı		h 150
Consumption of non-material sphere	77	ı	9 838		9 838
Operating surplus including indirect taxes, net, in the non-material sphere	3	ı	6 736 <sup>a</sup> /b/		9£1 9
Wages and sa- laries in the non-ma- erial sphere	2	149 153 30 405°	1		320 763 30 405
the MPS		149 153	171 610		320 763
Categories of the MPS		Primary incomes of population	Primary incomes of enterprises		Net material product

Including net income of unincorporated enterprises in the non-material sphere Including employers contributions to social insurance in the non-material sphere Net of employers contributions to social insurance Excluding net income of unincorporated enterprises in the non-material sphere

केंट दे क

Table 9.6. Total consumption of the population, Hungary, 1972

		Number of column in table 2, row 1	Million forints
	material consumption of the lation according to MPS	1	202 351
Plus:	Value of non-material services consumed by the population	2	+ 43 114
Less:	Intermediate consumption in the units of non-material sphere serving households	4	- 17 722
Less:	Consumption of fixed assets in units of non-material sphere serving households	5	- 6 436
TOTAL	CONSUMPTION OF THE POPULATION in the domestic market		221 307
Less:	Direct exports minus direct imports of households	8	- 3 936
Less:	Consumption of the population financed by government and non-profit institutions	9	- 30 712
Less:	Business travel expenditure	6	- 4 150
Less:	Purchases by enterprises for recreational, cultural etc. services to employees	7	- 1 108
	consumption expenditure of dential households according to SNA	12	181 401

Table 9.7. Condensed input/output table, Hungary, 1976

													г									
		Industry	Trom	Construc	-Trans	Trans-	Astriba-	Other	Imports	MATERIAL	Communal	Other	_	TOTAL				Finel Use				
			watens Logging	tion	tion fure and forestry	port and commu- nication	tive trade	meterial produc- tion		TOTAL	and Financial Pervices	non-ma- terial services	TOTAL TOTAL	INTERIC DIATE OUTPOI	Final consump- tion of popu- lation	Other final consump- tion	Gross fixed capital for-	Increase I	Replace- ment of losses	Exports	To tel	POTAL
	Code	12		80	03+04	90+40	7.0	80	5	٨	09+14	from 10 to 16 (exc.14/	æ	Ö	65	. م	e e	9	•	₩	•	100
Industry	ខ								,	343.0	3.8	16.7	20.5	363.5	126.7	4.9	25.8	15.4	9.0	1,891	3,0%	2 40%
from which: Logging									7	/5.3/	7.0	1	٧٠.%	/5.4/	/8 /8	]	6.3	; ? ?	<b>?</b>	7	5.6	1
Construction	8								,	15.7	3,3	2.2	5.5	21.2	0,3	5.6	83,1	8.8	1.2	9.0	9.66	120.8
Agriculture and forestry	03+04									97.2	6.0	1.2	2,1	99.3	45,0	6,7	2,0	1.7	3.0	24.8	74.2	173.5
tion	90+40									33.5	7.0	1,1	1.8	35.3	10.0	0.5	2.7	0.2	8.0	5.7	19.9	. <b>55.</b> 3
Distributive trade									,	36.3	2.2	5.4	7.6	43.9	40.7		4.5	3,6	2.0	4:1	53.7	91,6
Other material production	•								1	1.6	0.5	6.0	1,0	5.6	,	1,8	4.2	6.5		4:0	6.9	9.5
IMPOTTS MATERIAL SPHERE TOTAL	<b>છ</b> , ◀	115.1	).  -  -  -	8,6 69,3	12.3	7.0	5.2	6.0	, ,	148,5	2.1	6.6	7.0	155,5	25.2	د.ه د د	32.6	10.7	1 1	1 5	8.8	224.3
Communal and financial	-												1			200	2167		3:-	601.3		1,004,0
services Other non-material	09+14	3.9	<u>`</u>	7.0	1,2	9.0	2.6	0.1	,	9,1	2.3	1,4	3.7	12.8	17.1	3,3	ı	ı	ı	1	,	33,2
	¥.		/1.0/	••	6.0	0.5	6.3	•.1	•	6,3	0.2	1.6	1.8	8.1	44.0	26,6	1	•	1	1	ı	78.7
MON-MATHRIAL SPHERE TOTAL	<b>A</b>	8.0	/۲۰۰/	1,1	2.1	1,1	2.9	0.2	1	15.4	2.5	3.0	5.5	20.9	61.1	29.9	1	•	•		91.0	9.111
CONSUMPTION	υ	477.3	/4.2/	70.4	95.3	21,6	24.5	2.1	1	691,2	16.0	35.0	. 51.0	742.2	306.0	43.7	154.9	40.9	7.2	201.9	754.6	1496.8
Consumption of fixed assets	te D	24,6	/6.3/	2.4	11.3	9.0	1.8	8.0	ļ	6.64	7.5	7:4	11.9	61.8								
Frimary income of population	ton B		7・3/	25.6	54.5	16.2	18,5	2.6	•	193,1	7.8	36.6		237.5								
Primary income of enterprises F	inen F	126.4 /	7:3/	22.4	12.4	8.4	52.8	4.0	,	. 7'922	1.9	2,7		231.0								
Imports	œ	ı	<u>}</u>	t	1	1	1	1	224.3	224.3	I	,	,	224.3		Derivat	Perivation of final material consumption	nl materi	al consus	ption		
TOTAL INPUT	C+D+B+F+G	704.0	11.11	120.8	173.5	55.2	97.6	9.5	224.3	1384.9	33.2	78.7	11.9	1496.8						-	ł	
Memorandum itemes																			Consus- ption o popu- lation	Consum- Other ption of consum popu- ption		Total material cons.
Het income of unincor- porated enterprises	Part of	1.8		4.2	29.5	0.2	1.3		-	37.0	'		.	37.0	Direct	y from ma	Directly from mat.branches		244.9	.9 13.8		258.7
Contribution to social	Part of	13.8 /0.3/	٠ ا	3.7	3.1	3.0	3.1	4:0	1	27.1	1.0	2.7	3.7	8.0	Cens.of	material sphere Gens.of fixed capital in	re pital in					45.5
Business travel expen-	Part of	8.1	1	6.0		9,0	17	1	,	•	6	9	, ec	,	Tuon T	non-material sphere	sphere	1	5 ¢			6,1
Recreational stc.	Part of	•			•	•	¦ '			` ;	;	;	3	•			OTTO CENTRO	7 00 00	785		-	1
•••	Part of A	, i		0.2	. e.	. v.	2, 2	1 1	, 1	1,7	• 1			1,8	Prom Ci	nel conen	From final consumntion of	the normalations	***************************************			
Rational incomes /net		210,1 /3.3/	۶.	49.1	69.0	25.7	74.2	8.9	1	634.9				:	A Par	ct export	Direct exports /net/ W Financed by government	3.2 th	3.2 thousand million forint 41.5	liton for	p t	
									1													

Derivation of gross domestic product from data on meterial product according to kind of activity, Hungary, 1976 Table 9.8.

												/Thousand	Thousand million forint/
Kind of activity, according to MPS classification	ra FS	Met material product (MTS)	Re-allo- cation between major devia- tions	Metarial product according to SNA classifications	Value added, net in the non- material sphere	Value of non-waterial services, consumed by the material sphere	Business travel expen- ditures	Purchases by enter- prises creati- onal, cul- tural et. services to em- ploxees	Losses in stocks	Net do- mestic product /3+4-5- -6-7-8/	Consump- tion of fixed assets	Gross domestic product SNA/ 9+10/	Kind of activity according to SNA classification
	Code	1	2	3	4	5	9	7	8	6	10	11	
Industry	/10/	210.1	- 3.2	206.9		8.0	1.8	6.0	1.5	194.7	24.60/	219.3	Mining, manufacturing, electricity, gas and water /2,3,4/
Construction	/05/	49.1	•	- 49.1	1	1:1	6.0	0.1	0.2	46.8	2.4	49.2	Construction /5/
Agriculture and forestry	/03+04/	69.0	+ 3.2	2 72.2	•	2.1	6.0	0.3	8.0	68.5	11,3%	79.8	Agriculture and forestry /1/
fransport and communication	/90,50/	25.7	•	- 25.7	•	1.1	9.0	0.2	0.5	23.3	0.0	32.3	Transport and communication /7/
Trade	/10/	74.2	•	- 74.2	ı	2.9	1.1	0.2	1.2	68.8	1.8	70.6	Wholesale and retail trade $/6/$
Other material production	/80/	8.9	1	6.8	1	1	•	•	•	;	1	•	
I. Material sphere		434.9	- 6.	6.8 428,1	,	15,2	4.9	1.7	4.2	402.1	49.1	451.2	I. Material sphere
Housing, personal, financial and business services /09,14/	motel 18 /09,14/		+	/48°9 8°9	9.6	0.2 <sup>b</sup> /	,2 <sup>b</sup> / <sub>0</sub> .2	0.1	ı	15,9	8.30/	24.2	Financing, insurance real estate and business services, and personal services /8+95/
Other non-meterial services /10,11,12,13,15,16/	rvices	•		1	39.4	ı	9.0		1	38.8	4.	43.2	Community, and social services, except personal services /9, except 95/
II. Non-material sphere	re	ı	+ 6.	6.8 6.8	49.0	0.5	8.0	0.1	1	54.7	12.7	67.4	II.Non-material sphere
III. Total /I+II/		434.9		- 434.9	49.0	15.4	5.7	1.8	4.2	456.8	61.8	518.6	III. Totsl /I+II/
a/ Re-allocated are the net value of forestry from industry to the services from other material production to business services. b/ Including the relevant items of "other material production". c/ Re-allocated are the consumption of fixed assets in "Logging".	the net value waterial vant items	ue of foreigred production of "other tion of f	stry from on to bus r materia ixed asse	from industry to the branch of business services. erial production".	to the brices. on".	anch of ag	riculture	and forest	iry, and	the net	alue of a	rchitectur	agriculture and forestry, and the net value of architectural and similar

Table 9.9. Derivation of gross domestic product from data on met material product, according to categories of final use, Hungary, 1976

Thousand million forint/

Categories of the MPS	Selli	Final use of non-material services	Consumption of fixed assets	Intermediate material consumption in the material sphere sphere	Consumption of fixed assets in the non-material sphere	Business travel expen- ditures	Purchases by enter- prises for rec- reational cultural etc.ser- vices to employses	Direct exports to house- holds less direct imports	Re-allo- cation of consump- tion of the popu- lation fluanced by go- verrment	Increase of in- comple- ted fixed capital forms-	Losses  th fixed assets and stocks	80	Categories of the SKA
	1	2	3	4	5	9	7	8	6	10	11	27	•
Final /material/ con- sumption of the population	282.0	61.1	ı	28.2	8.9	5.7	1.8	/- 3.2/	/- 3.2/ /- 41.5/			253.8	Final consumption expenditure of residential households /1+2-4-5-6-7+8+9/
Other final con- sumption	34.1	29.9		17.3	3.0				41.5			85.2	Final consumption expenditure of government
Net fixed capital formation	93.1		61.8							14.0	3°0	171.9	dross fixed capital formation /1+3+10+11/
Capital formation in stocks	40.9									/-14.0/		26.9	Capital formation in stocks /1+10/
Losses in assets	7.2									`	/- 7.2/	1	ı
Exports minus imports	- 22.4							+ 3.2			•	- 19.2	Exports minus imports /1+8/
Met material product	434.9	91.0	61.8	45.5	11.9	5.7	1.8	•	ı	1	/- 4.2/ 518.6	518.6	Gross domestic product /1+2+3-4-5-6-7+11/

Table 9.10. Derivation of gross domestic product from data on gross output and intermediate consumption, Hungary, 1976

			•					/Tb	ousand mil	/Thousand million forint/
Categories of the MPS	e MPS	Gross output of the non- material sphere	Inter- mediate consump- tion in the non- material sphere	Consumption of non- material services in the material sphere	Consumption of fixed assets in the material sphere	Busi- ness travel expen- ditures	Losses 1n stocks	Purchases by enter- prises for re- creatio- nal, cul- tural etc. services to em- ployees	Cate	Categories of the SNA
		2	3	4	5	9	7	8	9	
Global product	1160.6	6.111 9.0911						1.8	1270.7	Gross output (1+2-8)
Intermediate ma- terial consump- tion including depreciation	725.7		51.0	15,4	6°6tı	5.7	e• <del>1</del>		752,1	Intermediate consumption (1+3+4-5+6+7)
Net material product	6,454	94,9 ا111.9	51.0	15,4	6*64	5.7	p.2	1,8	518.6	Gross domestic product (1+2-3-4+5-6-7-8)

Derivation of gross domestic product from data on net material product according to types of primary incomes, Hungary, 1976Table 9.11.

Thousand million forint/	Categories of the SWA		225.6 Compensation of employees /1+2-5+8+9/	Operating surplus including indirect taxes, net /1+3-4-6-7+8+9/	Consumption of fixed capital	518,6 Gross domestic product /1*2+3-4-5-6-7+8+9+10/
Thou Thou	Cate	11	225.6	231.2	61,8	518.6
	Gon- sumption of fixed capital	10	1	,	61.8	61.8
	Net in- come of unincor- porated enter- prises in the material	9	/0°16-/	/-30.8/ <sup>b/</sup> 37.0 <sup>4/</sup>		•
	En- ployers/ contri- butions to so- cial insu- rence	8	30.8	/-30.8/ <sup>b</sup>		•
	Purchases Emboye prises control for recording to so nal, cultural etc. insuservices to employees	7	1	1.8		1,8
	Losses 1n stocks	9	•	2 4		æ. ≄
	Business travel expendi- tures	5	5.7	•		5.1
	Consump- tion of non-ma- terial services in the material sphere	4	8	15.4		15.4
	Operating Consumpsurplus tion of including non-mataxes, services net, in the the non-material sphere sphere	3	1	4,6 <sup>8</sup> /b/		9.4
	Wages and sa- laries in the non-ma- terial sphere	2	<sup>/० प</sup> गंग	ı		<b>₹</b>
	the MPS		193,1	241,8		474.9
	Wages and sa.  Larles Larles Categories of the MPS in the non-ma.  terial sphere		Primary incomes 193.1 of population	Frimary incomes 241,8 of enterprises		Net material product

Including net income of unincorporated enterprises in the non-material sphere Including employers contributions to social insurance in the non-material sphere Net of employers contributions to social insurance Excluding net income of unincorporated enterprises in the non-material sphere के ठे वे

Table 9.12. Total consumption of the population, Hungary, 1976

		Number of column in table 2, row 1	Thousand million forint
	material consumption of the lation according to MPS	1	282.0
Plus :	Value of non-material services consumed by the population	2	+ 61.1
Less:	Intermediate consumption in the units of non-material sphere serving households	14	- 28.2
Less:	Consumption of fixed assets in the units of non-material services serving households	5	- 8.9
TOTAL (	CONSUMPTION OF THE POPULATION in the domestic market		306.0
Less:	Direct exports minus direct imports of households	8	- 3.2
Less:	Consumption of the population financed by government and non-profit institutions	9	- 41.5
Less:	Business travel expenditure	6	- 5.7
Less:	Purchases by enterprises for recreational, cultural etc. services to employees	7	- 1,8
	consumption expenditure of dential households according to SNA	12	253,8

# 10. Yugoslavia

# Sources of data

- 2.116 Input/output tables compiled by the Federal Institute for Statistics and published in "Inter-industry relations of the Yugoslav economy in 1962", 13/ and "Economic balances of Yugoslavia, 1974" 14/ were the main sources of information for conversion of MPS net material product into SNA gross domestic product for Yugoslavia.
- 2.117 The original input/output tables of Yugoslavia did not contain information on the disposition and cost structure of non-material services. In 1962 the Federal Institute for Statistics extended the input/output tables to include those services by adding a row and a column for the non-material sphere as a whole. The extension, of course, affected the data on value-added of material industries as well as final demand for material goods. The 1962 and 1970 input/output tables were supplemented by data on government outlays (net value-added and consumption of fixed assets) which were not incorporated in the condensed input/output tables themselves but were shown in footnotes. In addition, the Federal Institute for Statistics furnished data on the cost structure of the motion picture industry, restaurants and other eating and drinking places, and other material activities which were originally included in non-material services.
- 2.118 Beginning in 1966, financial accounts were established by the Federal Institute for Statistics and attached to the economic balances of Yugoslavia. Those accounts contain information on the population (education, public health etc.) and on units which meet the collective needs of the society as a whole (finance and insurance, administration and defence etc.). Although the 1970 input/output table related to the material sphere only, it has been extended for intersystem comparison purposes by including non-material services on the basis of the financial accounts. The distribution of non-material services among the branches of the economy was made pro rata in the same proportion as 1962 data supplied by the Federal Institute for Statistics.

### Derivation of gross domestic product

- 2.119 All adjustments included in the conversion tables are standard. Only a few remarks are believed to be necessary.
- 2.120 Figures on value-added in the material sphere (see col. 3, table 10.2)

14/ <u>Ibid</u>. (1976).

<sup>13/</sup> Studies, Analyses and Reviews (Belgrade, 1966).

were extracted from the input/output table but supplemented by net value-added originating in the general government, shown in the footnote to the input/output table for 1962.

- 2.121 Final consumption of non-material services by general government shown in table 10.3 was taken to be equal to the sum of the following items:
- (a) "Other final consumption", shown in the condensed input/output table:
- (b) Value-added, including depreciation of fixed assets, originating in the general government (shown in the footnote to the condensed input/output table).
- 2.122 Gross output of non-material services shown in table 10.4 was taken to be equal to the sum of:
- (a) Final expenditures on non-material services, shown in table 10.3:
- (b) Intermediate consumption of non-material services by the material sphere, shown in table 10.2;
- (c) Intermediate consumption of non-material services by the non-material sphere, shown in the condensed input/output table (see col. 9 and col. 5cf).
- 2.123 Material inputs in the non-material sphere, shown in table 10.3, were taken to be equal to the intermediate consumption by industries of the non-material sphere (see condensed input/output table 10.1, col. 9 and "c"), reduced by purchases of non-material services by the non-material sphere.
- 2.124 Similar explanatory notes relate to the derivation of the estimates for 1970 in conversion tables 10.6, 10.7 and 10.8.

(million diners)

							Γ	Other				7.1.0	1	1111		П
	Mades,				Transport		i a	13		Potel		Other	Gross fixed			L
	ing and	1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	Porestry	Constant-	- Ju		ij	ė	Non-	interne- dinte	Personal final capital	Class .	Condital	Increase	Exports	
	terring				ontion	1	Sep.	tion	90277.000	outout	and the same	amen't lon	and the same	stocks		
		2	3	•	3	9	7		6	9	2	3	9	9	3	L
gring and																
	1 18455	814	*	25.35	1184	3%	8%	90	3	24461	9214	1478	4636	1783	3503	•••
	2 2301	5231	*		-	10#				07.67	8% 89	240		\$	727	
	3 791	5	•	19	-	17	4	~	-	68	Ř	2	-		88	
	4	:	:	-	•	,										

							_	Other				Finel	7	PETE			
	Mades,				Transport								Gross fixed				Total output
	ing and	- Fred	Porestry	Construe- tion	-juneano	i	4	4.5	Non-	interme- diate	Personal	Clas.	ם	Increase	Exports	Total	( <b>9</b>
	and and	1			Setion	3	_	-	_		margina	g		etsogra			
		1	1	J	1	1	1	+	•		à	3	9	•	9	3	3
Mining, quarrying and														•			
menufacturing	1 18455	914	¥	2535	1184	%	\$	9	ž	24461	9214	1478	46%	1783	50	22614	47075
Agrioul ture	2 2301	5231	25			6				07.67	8569	240		\$	727	7994	15964
Porestry	3 791	•	•	£9	-	13	4	~	7	698	ž	2	-		8	\$	1198
Construction	191	13	21	1375	262	¤	•	~	22	1897		É	6558		7	6767	798
Transport and	5 1061	ñ	ĸ	8	2,8	123	27	12	ж	8	ş	Ä	5	×		36.06	100
Trade and catering	6 715	Ľ,		ğ	3	*	Ы	9	8	1329	32.6	3	· §	`	316	2 6	96
Servicing arts and	;	1	;	. 1	. ;	. 1	` ;	•		;		}	•	:	Ι		}
or a second	976	R R	9	<b>8</b>	8	<b>F</b>	91	-	3	669	Ş	æ	%	12		9	1339
Other material production	<b>8</b>	8	1	ដ	я	8	-	F	8	230	116	78		2	ŝ	92	8
Non-material services	327	147	12	8	35	35	-	7	٤	1038	86	332		i		22	30,7
Sub-total	A 24538	6558	154	4753	2088	1716	265	156	338	40693	22686	20621	11609	1970	796e	47164	15008
Consumption of fixed																	
essets	1495	121	ä	213	248	191	ส	2	×	703							
Value added, net	0 14244	71.42	166	<b>8</b>	2135	4353	727	277	1365	35158						<u> </u>	
Gross output (A+B+C)	1120t a	14127	1166	17998	4772	6230	1339	36	17571	79088	•						
Decrease in stocks	21	376	ដ							517							
Imports	8199	1461	#		Ŕ			×		8452			_				
fotal (G-E-F)	47075	15964	1196	9664	4975	6230	1339	952	1760	15088						-	
	-			1				1							1		

Other data for: government outlays - depreciation 137, value added, net, 4905.

14 17 1

Table 10.2. Derivation of gross domestic product from data on value-added, Yugoslavia, 1962

						(m1111or	(million dinars)
		Net material product	Value of non- material servi- ces consumed in the material	Value-added in the non- material sphere	Net domestic product (1-2+3)	Consumption of fixed assets	Gross domestic product (4+5)
	Code	1	2	3	4	2	9
Mining, quarrying and manufacturing	-	14541	उद्य		क्षेट्या	1495	15739
Agriculture	Q	7289	741		24.17	Lan	1569
Forestry	Ю.	606	21		897	115	1012
Construction	#	3760	ૹ		3698	213	1195
Transport and commication	ľ	2285	150		2135	845	2683
Trade and catering	9	60947	256		4353	191	<b>ት</b> [5]
Servicing arts and crafts	7	452	7		121	ដ	87/
Other material							
production	∞	<del>-</del> -	7		5777	53	009
I. Material sphere		34741	968		33773	3003	36776
sphere	٥,	ı	•	8829	9829	191	6479
III. Total (I+II)		ንկշկյ	896	6288	190041	3194	43255

Table 10.3. Derivation of gross domestic product from data on final uses, Yugoslavia, 1962

							(million dinars)
		Final		Material	Consumption		
		expenditures	Consumption	inputs in	of fixed		
Categories of the MPS	85	material		material	the non-	<b>ల్</b>	Categories of the SNA
		services		sphere	material sphere		
	7	2	3	ħ	5	9	
Personal consumption	52296	390				22686	Final consumption expenditures of residential households (1+2)
Other final consump- tion	2978	7911		2787	191	7911	Other final consumption (1+2-4-5)
Net fixed capital formation	8495		3194			11689	Gross fixed capital formation (1+3)
Capital formation in stocks	1453					1453	Capital formation in stocks
Exports minus imports	- 181	۴-				181	Exports minus imports (1+2)
Net material product	ጛ4741	8298	5194	2787	191	43255	Gross, domestic product (1+2+3-4-5)

Table 10.4. Derivation of gross domestic product from the data on global product and material input, Yugoslavia, 1962

(million dinars)

Categories of the SWA		Gross output (1+2)	Intermediate consumption (1+5+\frac{1}{4}-5)	Gross domestic product (1+2-3-4+5)
8	9	86999	<del>1/1</del> /£1	43255
Consumption of fixed assets in the material sphere	5		3003	3003
Consumption of non- material services in the ma- terial sphere	4		968	988
Intermediate consumption in the non-material sphere	3		3189	3189
Gross output of the non- material sphere	2	8996		8996
82	1	77331	42590	34741
Categories of the MPS		Global product	Intermediate material consumption including depreciation	Net material product

Table 10.5. Condensed input/output table, Yugoslavia, 1970

(million dinars)

													Final demand	mand			
	Mining, quarry- ing and manufac- turing	Agri-	Fore- stry	Fore- Constru- stry ction	Tran- sport and communications	Trade and cate- ring	Servi- cing arts and erafts	Other naterial servi-	Non- mate- rial	Total interme diate output	Personal consum- ption	Other final consum ption	Gross fixed capital for- metion	Incre- ase ta stocks	Exports	Total	Total output (a+g)
Code	-	67	8	*	9	•	6		•	ŝ	ê	(e)	(g	٤	Ę	٤	(a)
Mining, quarrying and manufacturing 1	141 69	1 4 046	170	10 599	3 348	3 733	2 171	. 20	3 766	97 275	43 338	\$ 170	16 902	10 359	22 053	95 622	193 09
Agricultura	14 303 14	3 14 609	8	•	*	8	•	•	274	29 938	15 717	230	9#	1 483	1 969	19 865	69 803
Forestry	2 213	2	120	260	7	n	•	*	9	2 516	265	ន	2	ž	301	1 62	7
Construction	246	26	26	7 617	170	245	11	ą	1 108	888	•	932	31 047	418	365	¥2 779	2
Transport and communications 5	3 825	5 556	8	1 887	1 298	650	127	ដ	9	8 921	7 577	420	166	293	4 547	13 003	21 82
Trade and catering 6	4 910	0 1 599	, <b>ರ</b>	1 943	1 000	<b>8</b>	8	더	\$	11 838	23 468	ğ	1 780	474	3 055	29 180	10 17
Servicing acts and crafts 7	1 403	3 529	2	ž	422	282	8	18	153	2 480	909 R	22	22	#	#	3 \$10	7 37
Other material production 8	1 333	22	•	12	8	186	26	•	212	1 961	430	13	•	2	\$	7.3	2 67
Non-material services	1 320	0 492	<b>*</b>	303	488	682	\$	ដ	818	4 Z07	26 554	8	•	•	•	27 240	2
Aub - total	880 88	3 21 988	8	23 264	867 8	7 350	\$ 407	<b>\$</b>	7 333	170 279	121 264	6 171	50 631	13 444	<b>30 7 28</b>	223 936	12 766
Consumption of fixed assets B	7 356	6 1 443	38	1 013	2 582	1 306	198	<b>9</b> 7	1 214	15 566							
Value added, net	46 719	5 23 461	2 985	18 312	8 957 34	878 FK	3 754	1 786	22 900	163 744							
Gross output (A+B+C)	D 163 168	18 46 912	808 8	42 589	18 334 43	13 506	7 356	2 387	n 447	909 GTC							
Decrease in stocks	- E	81	•	•	•	•	#	2	٠	2							
Imports	28 88 28 880	5 571	Ħ.	<b>E</b>	818	287	-	275	•	22							
Total (C+E-P)	G 193 096	6 49 802	4 240	42 643	19 150 43 793	13 793	7 369 2	2 675	31 447	394 216				1			

Other data: poverument outlays - deprodation 30, value added-net 6 929, which are not incorporated in this table.

Table 10.6. Derivation of gross domestic product from data on value-added, Yugoslavia, 1970

						(million dinars)
	Net	Value of non-	Value-added	Net	Consumption	Gross
	material	material servi-	In the non-	domestic	of fixed	domestic
	product	ces consumed	material	product	assets	product (1.5)
		sphere	spirere	(1-67)		(44)
Code	le 1	2	3	4	5	9
Mining, quarrying and	9¥0 8¶	1 320	1	h6 719	7 355	ካሪን ካ\$
p	!			2		
Agriculture 2	23 973	264	1	23 481	1 443	426 42
Forestry	3 030	94	1	7 38#	334	3 518
Construction	18 615	303	ı	18 312	1 013	19 325
Transport and				ı		
communication 5	5 <del>11</del> 6	884	•	8 957	2 582	11 579
Trade and catering 6	55 530	682	1	34 848	1 308	36 156
Servicing arts and crafts 7	3 794	O <del>l</del>	1	3 754	195	3 949
Other material production 8	1 809	เร	ŧ	1 788	140	1 928
I. MATERIAL SPHERE	144 235	3 392	•	140 843	14 370	155 213
II. NON-MATERIAL SPHERE		ı	29 829	29 829	1 244	31 073
III. TOTAL (I+II)	144 235	3 392	59 829	170 672	15 614	186 286
		Leave				

Table 10.7. Derivation of gross domestic product from data on final uses, Yugoslavia, 1970

(million dinars)	Categories of the SWA		Final consumption expenditures of residential households (1+2)	Other final consumption (1+2-4-5)	Gross fixed capital 50 631 formation (1+3)	Capital formation in stocks	Exports minus imports	Gross domestic product (1+2+3-4-5)
	త	9	121 283	13 130	50 631	12 459	-11 217	186 286
	Consumption of fixed assets in the non- material sphere	5		1 244				1 244
1	Material inputs in the non- material sphere	†1		12 003				12 003
0	Consumption of fixed assets	3			15 615			15 615
Yugoslavia, 1970	Final expenditures on non- material services	2	26 554	13 130				39 68h
-	84	-	9 <del>4</del> 729	13 247	35 016	12 459	-11 217	144 234
	Categories of the MPS		Personal consumption	Other final consump- tion	Net fixed capital formation	Capital formation in stocks	Exports minus imports	Net material product

Table 10,8. Derivation of gross domestic product from data on global product and material input, Mgoslavia, 1970

		ground prod	grown product and marerial input, ideostavia, 1970	. input, iugosi	avia, 1970		(million dinars)
Categories of the MPS	NTRS .	Gross output of the non- material sphere	Intermediate consumption in the non-material sphere	Consumption of non- material services in the ma- terial sphere	Consumption of fixed assets in the material sphere	Cast	Categories of the SNA
	1	8	3	ŧ	5	9	
Global product	318 162	125 44				362 739	362 739 Gross output (1+2)
Intermediate material consumption including depreciation	173 921		13 504	3 392	14 570	176 453	176 455 (1+5+4-5)
Net material product	144 235	<del>ነ</del> ት577	13504	3 392	14 370	186 286	186 286 Gross domestic product (1+2-3-4+5)

كيفية الحمول على منشورات الامم المتحدة

يكن العمول على متصورات الام المتحدة من المكتبات ودور التوزيع في جديع انحاء العالم · امتعلم عنها من المكتبة التي تتعامل معها أو اكتب الى : الامم المتحدة ،قسم البيع في نيويورك او في جنيف ·

#### 如何购取联合国出版物

联合国出版物在全世界各地的书店和经督处均有发售。请向书店询时或写信到纽约或日内瓦的联合国销售组。

## HOW TO OBTAIN UNITED NATIONS PUBLICATIONS

United Nations publications may be obtained from bookstores and distributors throughout the world. Consult your bookstore or write to: United Nations, Sales Section, New York or Geneva.

## COMMENT SE PROCURER LES PUBLICATIONS DES NATIONS UNIES

Les publications des Nations Unies sont en vente dans les librairies et les agences dépositaires du monde entier. Informez-vous auprès de votre libraire ou adressez-vous à : Nations Unies, Section des ventes, New York ou Genève.

#### **ЖАК ПОЛУЧИТЬ ИЗДАНИЯ ОРГАНИ ЗАЦИИ ОБЪЕДИНЕННЫХ НАЦИИ**

Издания Организации Объединенных Наций можно купить в книжных магазинах и агентствах во всех районах мира. Наводите справки об изданиях в вашем книжном магазине или пишите по адресу: Организация Объединенных Наций, Секция по продаже изданий, Нью-Морк или Женева.

#### COMO CONSEGUIR PUBLICACIONES DE LAS NACIONES UNIDAS

Las publicaciones de las Naciones Unidas están en venta en librerías y casas distribuidoras en todas partes del mundo. Consulte a su librero o diríjase a: Naciones Unidas, Sección de Ventas, Nueva York o Ginebra.

Price: \$U.S. 11.00