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Items for discussion and decision: National accounts

Updated System of National Accounts (SNA):

Chapter 16: Summarising and integrating the accounts

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Chapter 16: Summarising and integrating the accounts

A. Introduction

- 16.1 This chapter provides a synthesis of the sequence of accounts presented in chapters 6 to 13 and shows how they integrate with the tables in chapter 1. It shows how the most common aggregates in the System, GDP, NDP and GNI are related to the balancing items in the various accounts. It shows the impact on national aggregates of transactions undertaken between a resident unit and one resident in the rest of the
- world. It describes the articulation of the accumulation accounts.
- 16.2 The chapter lays the groundwork for greater elaboration of the accounts, in both manners of presentation and further analysis that form the subject matter of later chapters.

B. GDP and related aggregates

1. Aggregates deriving from the current accounts

- 16.3 The tables presented in the previous chapters use a format very common in published tables; the items representing resources are shown in the right-hand side of the table and the items representing uses in the left-hand side of the table. This format is flexible because it allows a multiple number of columns to be shown for both parts of the table and even for the two parts to be shown on different pages if the columns are sufficiently numerous. However, there is another format for the tables that is particularly useful for explanatory purposes, the T account.
- 16.4 In a T account, only one set of descriptive headings (stubs) is shown in the middle of the table with values representing resources in columns to the right and values representing uses in columns to the left. An example of a T account is given in table 16.1. The rows in the table show the rows from tables 6.1, 7.1, 7.2, 8.1 and 9.1 at a high level of aggregation. Data for the individual sector accounts are not shown but the total for the economy as well as for the rest of the world and the total of both these are shown. In addition, the column for the goods and services account is retained.

Summarising the current accounts

16.5 The table begins with imports and exports of goods and services, the entries from the rest of the world account that show the value of goods and services that reach the national

- economy from the rest of the world and those that are produced in the national economy but are provided to the rest of the world.
- 16.6 The immediately following rows show the main entries from the production account, output and taxes less subsidies on the resource side and intermediate consumption on the use side. The balancing item for the production account, value added appears next, also on the use side as the closing item of the production account. Value added is the basic building block for determining GDP.
- 16.7 The next entries come from the generation of income account. The first entry, the same figure as the previous balancing item is value added and it is shown on the same row as before. On the uses side are compensation of employees, operating surplus and mixed income. These appear on the resource side of the distribution of primary income account and are again aligned with their previous entries on the use side of the account. The items in the generation of income account show how returns to labour and capital are made by apportioning value added between them.
- 16.8 Property income is the next item to appear in the table. Property income may be payable by residents or non-residents and may be receivable by residents or non-residents. Once the values for three of them are known, the value of the last must also be determined. For example, property income receivable

Table 16.1: Summary of the current accounts in the sequence of accounts

| Uses | | | | | | | R | esources |
|--------------|----------------------|-----------------------|-----------------------|---|-------|----------------------|-----------------------|-------------|
| S1 | S2 | | | | S1 | S2 | | |
| | <u>e</u> | ٦ | | | | ഉ | Þ | |
| omy | of # | ds ar | | | omy | of#_ | ds ar | |
| Total | Rest of the world | Goods and services | اوات Code | Transactions and balancing items | Total | Rest of the world | Goods and services | Total |
| _ ⊢ ω | LE > | 499 | 499 P8 | Imports of goods and services | Ε Φ | 499 | O s | 499 |
| | 540 | | 540 P7 | Exports of goods | | | 540 | 540 |
| | | | | Production account | | | | |
| | | 3 604 | 3 604 P1 | Output | 3 604 | | | 3 604 |
| 1 883 | | | 1 883 P2 | Intermediate consumption | | | 1 883 | 1 883 |
| | | 141 | 141 D21 | Taxes on products | 141 | | | 141 |
| | | - 8 | - 8 D31 | Subsidies on products (-) | - 8 | | | - 8 |
| 1 854 | | | 1 854 B1g | Value added, gross / Gross domestic product | | | | |
| 222 | | | 222 P6 | Consumption of fixed capital | | | | |
| 1 632 | - 41 | | 1 632 B1n - 41 B11 | Value added, net / Net domestic product External balance of goods and services | | | | |
| | -41 | | -41011 | External balance of goods and services | | | | |
| | | | | Generation of income account | | | | |
| | | | B1n | Value added, net / Net domestic product | 1 632 | | | 1 632 |
| 769 | | | 769 D1 | Compensation of employees | | | | |
| 235 | | | 235 D2 | Taxes on production and imports | | | | |
| 141 | | | 141 D21 | Taxes on products | | | | |
| 94 | | | 94 D29 - 44 D3 | Other taxes on production Subsidies | | | | |
| - 44 - 8 | | | - 44 D3 - 8 D31 | Subsidies on products | | | | |
| - 36 | | | - 36 D39 | Other subsidies on production | | | | |
| 240 | | | 240 B2n | Operating surplus, net | | | | |
| 432 | | | 432 B3n | Mixed income, net | | | | |
| | | | | Distribution of primary income account | | | | |
| | | | | Operating surplus, gross | 452 | | | 459 |
| | | | | Mixed income, gross | 442 | | | 442 |
| | | | | Operating surplus, net | 240 | | | 247 |
| | | | | Mixed income, net | 432 | | | 432 |
| | 6 | | 6 D1 | Compensation of employees | 773 | 2 | | 775 |
| | | | 0 D2 | Taxes on production and imports | 235 | | | 235 |
| 442 | 62 | | 0 D3 | Subsidies Property income | - 44 | 20 | | - 44 |
| 413 1 661 | 63 | | 476 D4 1 661 B5n | Balance of primary income, net / National income, net | 438 | 38 | | 476 0 |
| 1 00 1 | | | 1 001 6311 | Balance of primary income, het / National income, het | | | | 0 |
| | | | | Secondary distribution of income account | | | | |
| | | | | Balance of primary incomes, gross / National income, gross | 1 883 | | | 1 883 |
| | | | | Balance of primary income, net / National income, net | 1 661 | | | 1 661 |
| 1 212 | 17 | | 1 229 D5 | Current transfers | 1 174 | 55 | | 1 229 |
| 212 | 1 | | 213 D51 | Current taxes on income, wealth, etc. | 213 | 0 | | 213 |
| 283 | 16 | | 299 D54 | Other current transfers Disposable income, net | 244 | 55 | | 299 |
| 1 623 | | | 1 623 | ы порозавленностие, пес | | | | |
| | | | | Use of disposable income account | | | | |
| | | | | Disposable income, gross | 1 845 | | | 1 845 |
| 4 000 | | | 4 000 B0 | Disposable income, net | 1 623 | | 4.000 | 1 623 |
| 1 399 11 | 0 | | 1 399 P3 11 D7 | Final consumption expenditure Change in pension entitlements | 11 | 0 | 1 399 | 1 399 11 |
| 446 | 0 | | 446 B8g | Saving, gross | - 11 | 0 | | 11 |
| 224 | | | 224 B8n | Saving, gross Saving, net | | | | |
| | - 32 | | - 32 B12 | Current external balance | | | | |
| | | | | | | | | |

Table 16.2: Summary of the accumulation accounts and balance sheets

| Changes in ass | sets | | | | | Cł | nanges in li | abilities and | net worth |
|----------------------------|----------------------|-----------------------|---------------------|---------------------------------------|---|------------------|----------------------|----------------------------|---|
| S1 | S2 | | | | | S1 | S2 | | |
| Total economy | Rest of the world | Goods and services | Total | ode | Transactions and balancing items | Total economy | Rest of the world | Goods and services | Total |
| | | | | | Capital account | | | | |
| 414 192 376 - 222 | | | | 51n 51g | Saving, net Current external balance Gross capital formation Net capital formation Gross fixed capital formation Consumption of fixed capital | 224 | - 32 | 414 192 376 - 222 | 224 - 32 414 192 376 - 222 |
| 28 10 0 | | | | AN11 AN12 AN13 P 8r 8p | Gross fixed capital formation by type of asset Changes in inventories Acquisitions less disposals of valuables Acquisitions less disposals of non-produced assets Capital transfers, receivable Capital transfers, payable | 62 - 65 | 4 - 1 | 28 10 0 | 28 10 0 66 - 66 |
| 29 | - 29 | | 0 | | Changes in net worth due to saving and capital transfers Net lending (+) / net borrowing (–) | 221 | - 29 | | 192 |
| 23 | - 23 | | J | | | | | | |
| 450 - 1 97 | 37 1 11 | | 487 0 F 108 F | 2 | Financial account Net lending (+) / net borrowing (-) Net acquisition of financial assets/liabilities Monetary gold and SDRs Currency and deposits | 29 421 110 | - 29 66 - 2 | | 0 487 108 |
| 82 77 | 9 4 | | 91 F | | Debt securities Loans | 71 36 | 20 45 | | 91 81 |
| 117 | 2 | | 01 F | | Equity and investment fund shares | 105 | 14 | | 119 |
| 48 | 0 | | 48 F | 6 | Insurance, pension and standardised guarantee schemes | 48 | 0 | | 48 |
| 14 16 | 0 10 | | 14 F 26 F | | Financial derivatives and employee stock options Other accounts receivable/payable | 11 40 | 3 - 14 | | 14 26 |
| 10 | 10 | | 20 1 | <u> </u> | | 40 | - 14 | | 20 |
| | | | | | Other changes n the volume of asssets account | | | | |
| 15 - 7 | | | 15 - 7 | AN1 | Total other changes in volume Produced assets | - 2 | | | - 2 |
| 17 | | | 17 | AN2 | Non-produced assets | | | | • |
| 5 0 | | | 5 0 | AF AF8 | Financial assets Other accounts receivable/payable | - 2 | | | - 2 |
| U | | | U | 7.0 | Changes in net worth due to other changes in volume of assets | 17 | | | |
| | | | | | • | | | | |
| | | | | | Revaluation account Nominal holding gains and losses | | | | |
| 280 84 | 7 | | 280 91 | AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to nominal holding gains/losses Neutral holdinggains and losses | 76 288 | 3 4 | | 79 292 |
| 198 136 | 12 | | 198 148 | AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to neutral holding gains/losses Real holdinggains and losses | 126 208 | 6 6 | | 132 214 |
| 82 - 52 | - 5 | - | 82 - 57 | AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to real holding gains/losses | - 50 80 | - 3 - 2 | | - 53 78 |
| | | | | | | | | | |
| | | | | | Opening balance sheet | | | | |
| 4 821 | | | 821 | AN | Non-financial assets | | | | |
| 8 031 | 805 | 81 | 836 | AF | Financial assets/liabilities Net worth | 7 762 5 090 | 1 074 - 269 | | 8 836 4 821 |
| | | | | | Total changes in assets and liabilities | 3 030 | - 203 | | 7 021 |
| 499 | | | 499 | AN | Non-financial assets | | | | |
| 539 | 44 | | 583 | AF | Financial assets/liabilities Changes in net worth, total | 495 535 | 69 | | 564 539 |
| | | | | | Changes in net worth due to : | | | | |
| | | | | | Saving and capital transfers Other changes in volume of assets | 230 | 0 | | 230 |
| | | | | | Other changes in volume of assets Nominal holding gains/losses | 17 288 | 4 | | 17 292 |
| | | | | | Closing balance sheet | | | | |
| 5 320 8 570 | 849 | | 320 419 | AN AF | Non-financial assets Financial assets/liabilities | 8 257 | 1 143 | | 9 400 |
| 0 01 0 | 0+3 | | . 10 | | Net worth | 5 625 | - 265 | | 5 360 |
| | | | | | | | | | |

by residents must be equal to property income payable by both residents and non-residents less property income receivable by non-residents. Thus property income receivable by both residents and non-residents (shown under resources) must be equal to property income payable by both residents and non-residents (shown under uses).

- 16.9 Value added as a resource plus the resource entries of compensation of employees, operating surplus, mixed income and property income, less the corresponding entries for these items as uses leads to the balance of primary incomes. This is the balancing item for the distribution of primary income account shown as a use, and the first item, a resource, of the secondary distribution of income account.
- 16.10 From the balance of primary incomes, another key aggregate of the System, national income is derived. [more]
- 16.11 The secondary distribution of income account shows how primary income is transformed to disposable income buy the payment and receipt of current transfers. [more] Current transfers payable by resident and non-resident units must be equal to current transfers receivable by both resident and non-resident units, and thus the use and resource are equal as is the case for property income.
- 16.12 Disposable income is an important balancing item in the accounts since it shows how much can be consumed without the need to run down assets or incur liabilities. It thus corresponds to the economic theoretical concept of income.
- 16.13 The use of income account shows how much disposable income is in fact used for consumption and how much is saved. When looking at the sector accounts, , the adjustment for the change in pension entitlements has to be made to ensure that these form part of the saving of households and not of pension funds but in the aggregate only flows involving non-resident employees or resident employees of non-resident enterprises appear.
- 16.14 The equivalent of 'saving' in the context of the rest of the world is the current external balance. [more]
- 16.15 Table 16.1 demonstrates a simple economic proposition in national accounting terms. Notwithstanding all the distribution and redistribution of income shown in the sequence of accounts, income as generated less consumption is equal to saving

2. Summarising the accumulation accounts

- 16.16 Table 16.2 presents a summary of the accumulation accounts and balance sheets with the same sort of detail as used for the current accounts in table 16.1. In this case, the titles given to the right- and left-hand columns are changed; the columns to the right are described as changes in liabilities and net worth, and those to the left show changes in assets
- 16.17 The first items appearing on the right-hand side of the capital account are saving and the current external balance. These are

- available for use to acquire non-financial capital, primarily capital formation but also non-produced non-financial assets. The balancing item of the capital account is net borrowing or lending. When there is net lending, it shows the extent to which the sum of saving and the current external balance are actually used to finance the acquisition of non-financial assets and how much is lent to the rest of the world. When there is net borrowing, saving plus the current external balance is insufficient to finance all the acquisition of non-financial assets and borrowing from the rest of the world is necessary.
- 16.18 Table 16.3 shows that capital transfers receivable and payable exactly offset one another in the same way that property income and current transfers do. Further, transactions in financial assets shown as changes in assets exactly balance the amounts shown as changes in liabilities and net worth because when all transactions of resident units with either other resident units or non-resident units are taken into account, there can be no net lending or borrowing left unexplained.

3. The goods and services account

- 16.19 Throughout the sequence of accounts, each transaction line is balanced. For the distributive and redistributive transactions, this is automatically the case if the data is fully reconciled since whatever is shown as payable by one unit must be show as receivable by another. However this is not obviously the case for the transactions relating to goods and services. In order to preserve the balancing nature of the accounts, a column headed "goods and services" is included on each side of the accounts. In every case where there is a transaction relating to goods and services, an entry in the goods and services column on the other side of the account is made.
- 16.20 Ultimately the entries on the left-hand side of the account show the value of all goods and services supplied to the economy, either as production or imports, plus the taxes on products less subsidies paid on them. On the right-hand side of the account, the use of the goods and services is shown, as intermediate or final consumption, capital formation or exports.
- 16.21 Clearly, ex-post the total amount of goods and services supplied to the economy must be equal to the total use made of those goods and services. Setting the entries in the left-hand goods and services column equal to those in the right-hand side column gives the familiar goods and services account, described in chapter 14:
 - Output + imports + taxes less subsidies on products = intermediate consumption + final consumption +exports + capital formation
- 16.22 The equation reflects the notion that goods and services produced now are used either to generate more goods and services in the current period (intermediate consumption) or to generate more goods and services in future periods (capital formation) or to satisfy human wants immediately (final consumption). However, because no economy is entirely closed, it is necessary to allow for those goods and services

supplied from outside the economy (imports) and those goods and services used by other economies (exports).

16.23 This identity comprises the goods and services account. The goods and services account shows the balance between the total goods and services supplied as resources to the economy as output and imports (including the value of taxes less subsidies on products not already included in the valuation of output) and the use of the same goods and services as intermediate consumption, final consumption, capital formation and exports.

4. The GDP identities

16.24 Rearranging the order of items appearing in this balance leads to the most familiar definitions of GDP

Output - intermediate consumption + taxes less subsidies on products

3,604 - 1,883+133

= final consumption + capital formation + exports – imports = GDP

= 1.399 + 414 + 540 - 499 = 1854

There are thus two separate ways in which GDP can be defined:

- a. the output measure of gross domestic product (GDP) is derived as the value of output less intermediate consumption plus any taxes less subsidies on products not already included in the value of output,
- b. the expenditure measure of gross domestic product (GDP) is derived as the sum of expenditure on final consumption plus gross capital formation plus exports less imports.
- 16.25 The output measure of GDP can also be expressed as value added adjusted to ensure all taxes less subsidies on products are included. As described in chapter 7, value added can be viewed as the elements comprising income: compensation of employees, operating surplus, mixed income and other taxes less subsidies on production. If separate estimates are available of these components, then a third way of compiling GDP is possible, that is, from the income side. Because other taxes less subsidies on production are included in value added and taxes less subsidies on products are to be included also, the two tax items can be replaced by the term that is the sum of them both, taxes less subsidies on production and imports.

GDP = Compensation of employees + gross operating surplus + gross mixed income + taxes less subsidies on production and imports

1,854 = 768 + 452 + 442 + 191

The third way in which GDP can be defined is thus

c. the income measure of gross domestic product (GDP) is derived as compensation of employees plus gross operating surplus plus gross mixed incomes plus taxes less subsidies on both production and imports.

5. A note on the valuation of output

- 16.26 In chapter 6, it is explained that the preferred measurement of output in the system is basic prices. At basic prices, the value of output excludes all taxes on products and includes all subsidies on products. It includes all [other] taxes on production and excludes all[other] subsidies on production. However, the data sources in some countries may not permit this valuation to be followed. In this case, output will be valued at producers' prices. All taxes on both products and production will be included in the value of output and all subsidies on both products and production will be excluded.
- 16.27 For this reason, the definition of GDP from the output side given above includes the phrase "plus any taxes less subsidies on products not already included in the value of output". When output is valued at producers' prices, there will be no further taxes on products to add in; they will be already included in the measure of output (and similarly subsidies on products will already be deducted. In this case, GDP may be defined as the output measure of gross domestic product (GDP) is derived as the value of output at producers' prices less intermediate consumption. When output is measured at basic prices, (as preferred in the System and as followed in the numerical example) the definition can be rephrased as the output measure of gross domestic product (GDP) is derived as the value of output at basic prices less intermediate consumption plus taxes less subsidies on products.

6. Gross and net domestic product

- 16.28 While the third definition of GDP is correct both economically and statistically, it is held not to be the best measure of income. Income is usually defined as the amount that can be spent while keeping the level of capital intact. (For further discussion on this see xxx.) It is for this reason that the item consumption of fixed capital is so important in the accounts and appears in every account as the difference between balancing items on a gross and net basis. To measure domestic production on a net basis, it is necessary:
 - to deduct consumption of fixed capital from the output measure of GDP.
 - b. to replace gross capital formation by net capital formation in the expenditure measure of GDP,
 - to replace gross operating surplus by net operating surplus and gross mixed income by net mixed income in the income measure of GDP.
- 16.29 Each deduction from GDP is equivalent because the difference between the gross and net capital formation is the consumption of fixed capital as is the difference between the sum of operating surplus and mixed income on a gross basis as

1.632 = 1.854 - 222

C. The link between the domestic economy and the rest of the world.

16.30 It is commonplace to examine the relationship between one country and the rest of the world as in the balance of imports and exports of goods and services. This balance is of key importance to economic policy makers and analysts. However, in recent years, other entries in the international accounts and their impact on SNA totals have come into Some of this is due to the increasing prominence. importance of global manufacturing and off-shore Some is due to the recognition of the processing. contribution of permanent and temporary migrants to the incomes of their home country. The impact of globalisation is discussed further in chapter ??? and the consequences of labour mobility in chapter ????. The present section explains how income concepts can be adjusted to reflect the impact of the rest of the world and how borrowing from or lending to the rest of the world affects the level of investment in a country.

- 16.31 Gross and net national income
- 16.32 It is possible to expand the T accounts such as those shown earlier in this chapter by expanding the number of columns to the right and left of the central headings. A first step is to show the figures for the total economy and the rest of the world separately. This is shown for the complete sequence of accounts in table 16.5. The columns for the rest of the world are drawn up from the perspective of the rest of the world and not from that of the total economy. Thus although imports represent an outflow from the total economy, from the point of view of the rest of the world, imports to the total economy represent a resource and this is how they are shown in this and similar tables.
- 16.33 Table 16.5 highlights the fact that for all the transactions that disappeared on consolidation (that is excluding the balancing items) total receivables and total payables are equal only when transactions with the rest of the world are included. Just as the provision of goods and services in the goods and services account must allow for imports and exports, so must redistributive transactions and accumulation entries.
- 16.34 In some countries, border or seasonal workers may have a significant effect on the amount of compensation of employees that is either payable abroad or receivable from abroad. Compensation earned abroad but repatriated to the country where the employee is resident (as opposed to where he or she works) adds to the income of households available for consumption. The concept of national income as opposed to domestic production is thus another key aggregate of the System. As well as labour income from

abroad in the form of compensation of employees, income earned abroad on capital, especially financial capital, in the form of property income, is included in national income as well as any taxes on products payable by non-residents. Similar payment flowing out of the national economy to the rest of the world have to be deducted from GDP to reach national income.

16.35 Gross national income (GNI) is defined as GDP plus compensation of employees receivable from abroad plus property income receivable from abroad plus taxes less subsidies on production receivable from abroad less compensation of employees payable abroad less property income payable abroad and less taxes less subsidies on production payable abroad. In the terms of an equation,

GNI = GDP + compensation of employees receivable from abroad

- + property income receivable from abroad + taxes less subsidies on production and imports receivable from abroad
- compensation of employees payable abroad
 property income payable abroad
- taxes less subsidies on production and imports payable abroad

$$1,883 = 1,854 + 6 + 63 + 0 - 2 - 38 - 0$$

16.36 As mentioned above, an income concept is better measured after deducting consumption of fixed capital so *Net National Income (NNI)* is defined as GNI less the consumption of fixed capital.

NNI = GNI - consumption of fixed capital

$$1,661 = 1,883 - 222$$

1. National disposable income

16.37 A further step in examining the impact of the rest of the world on the national economy is to consider current transfers receivable from abroad and those payable abroad. Transfers receivable from abroad include remittances from nationals working abroad for long enough (more than one year) to be treated as resident elsewhere. However, like compensation of employees payable from abroad, these transfers from non-residents can have a major impact on the resources available to the national economy. Overseas assistance, other than development assistance for capital

projects is also shown here. As before, transfers payable abroad must be deducted in moving from national income to national disposable income.

16.38 National disposable income, more often than domestic product and national income, is usually shown on a net basis. Net national disposable income (NNDI) is defined as net national income (NNI) plus current transfers receivable from abroad less current transfers payable abroad. In equation terms,

NNDI = NNI + current transfers receivable from abroad – current transfers payable abroad

1632 = 1661 + 10 - 39

2. Net lending or borrowing from the rest of the world

16.39 Because the total for the entries of borrowing and lending must balance, it is possible to demonstrate that the value of

saving and of capital formation must be equal. However, here also the rest of the world plays an important part. It is highly relevant to know how saving is affected by the external current external balance which acts like "saving" of the "rest of the world sector" and to know how far there is lending and borrowing to the rest of the world.

16.40 Table 16.5 shows that the saving of the total economy is 455 but there is dis-saving to the rest of the world in that imports at 499 are lower than exports at 540. This means that more of the goods and services produced in the economy are exported than imported and so the amount left for use as consumption or capital formation is less than the amount produced. The current external balance is -41, a flow from the total economy to the rest of the world. In consequence capital formation is equal only to 414, the amount of national saving adjusted for the current external balance.

Table 16.3: Entries from the sequence of accounts for the total economy and the rest of the world

| Uses | | | | | | Resources |
|------------------|----------------------|-----------|---|------------------|-------------------|-----------|
| S1 | S2 | | | S1 | S2 | |
| Total economy | Rest of the world | Code | Transactions and balancing items | Total economy | Rest of the world | Total |
| | | 499 P8 | Imports of goods and services | | 499 | 499 |
| | 540 | 540 P7 | Exports of goods | | | 540 |
| | | 3 604 P1 | Output | 3 604 | | 3 604 |
| 1 883 | | 1 883 P2 | Intermediate consumption | | | 1 883 |
| | | 141 D21 | Taxes on products | 141 | | 141 |
| | | - 8 D31 | Subsidies on products (-) | - 8 | | - 8 |
| 1 854 | | 1 854 B1g | Value added, gross / Gross domestic product | | | |
| | - 41 | - 41 B11 | External balance of goods and services | | | |
| | 6 | 6 D1 | Compensation of employees | 773 | 2 | 775 |
| | | 0 D2 | Taxes on production and imports | 235 | | 235 |
| | | 0 D3 | Subsidies | - 44 | | - 44 |
| 413 | 63 | 476 D4 | Property income | 438 | 38 | 476 |
| 1 661 | | 1 661 B5n | Balance of primary income, net / National income, net | | | 0 |
| 1 212 | 17 | 1 229 D5 | Current transfers | 1 174 | 55 | 1 229 |
| 1 623 | | 1 623 | Disposable income, net | | | |
| 446 | | 446 B8g | Saving, gross | | | |
| 224 | | 224 B8n | Saving, net | | | |
| | - 32 | - 32 B12 | Current external balance | | | |
| | | D8r | Capital transfers, receivable | 62 | 4 | 66 |
| | | D8p | Capital transfers, payable | - 65 | - 1 | - 66 |
| 29 | - 29 | 0 | Changes in net worth due to saving and capital transfers Net lending (+) / net borrowing (–) | 221 | - 29 | 192 |
| | | | Net lending (+) / net borrowing (–) | 29 | - 29 | 0 |
| 450 | 37 | 487 | Net acquisition of financial assets/liabilities | 421 | 66 | 487 |

16.41 There are capital transfers between the total economy and the rest of the world; an inflow to the total economy of 4 and an outflow of 1. Taken together with the current external balance, this means that there is net lending to the rest of the world of 38. Total acquisitions of financial assets at 691 are

made up of 641 from other parts of the total economy and 50 from the rest of the world. These are balanced by changes in liabilities of 603 to the total economy and 88 to the rest of the world

D. Integration of stock and flow data

- 16.42 The balance sheets are an integral part of the system. An understanding of the articulation of the balance sheets with the flows relating to assets in the capital, financial and other changes in assets accounts is fundamental to understanding the role capital accumulation plays in the System.
- 16.43 The basic accounting identity linking the opening and the closing balance sheet values for a single type of asset can be summarized as follows:

The value of the stock of a specific type of asset in the opening balance sheet valued at the prices prevailing at the date the balance sheet refers to;

plus the total value of the assets acquired, less the total value of those disposed of, in transactions that take place within the accounting period: transactions in non-financial assets are recorded in the capital account and transactions in financial assets in the financial account;

plus the value of other positive or negative changes in the volume of the assets held (for example, as a result of the discovery of a subsoil asset or the destruction of assets as a result of war or a natural disaster): these changes are recorded in the other changes in the volume of assets account;

plus the value of the positive or negative nominal holding gains accruing during the period resulting from a change in the price of the asset: these are recorded in the revaluation

account where they may be further decomposed into neutral holding gains which reflect changes in the general price level, and real holding gains which reflect a change in the relative price of the asset;

equals the value of the stock of the asset in the closing balance sheet valued at the prices prevailing at the date the balance sheet refers to.

- 16.44 The identity is valid even in the case of assets that are held only temporarily within the accounting period and that do not appear in either the opening or the closing balance sheets. The identity holds for assets in total, for every separate class of asset and indeed for every individual asset. An asset account describes the changes in the stock of an asset or class of assets from one balance sheet to the next, itemising which changes are due to capital transactions, which to financial transactions and which to other changes in volume and revaluation.
- 16.45 The link between the balance sheet and flow accounts in respect of financial assets and liabilities is often recognised and presented. Less attention has been focussed on the links for non-financial assets though as chapter ??? on capital services makes clear, it is no less important, especially as regards an understanding of productivity growth in the economy.

E. Integrated economic accounts

- 16.46 The T accounts shown in table 16.1 and 16.2 can be extended to cover all the sectors of the economy and as much detail as required in the accounts. Such an extended presentation is referred to as a set of integrated economic accounts. An example is tables 16.4 and 16.5 which shows, simultaneously, the general accounting structure of the System and presents a set of data for the individual institutional sectors, the economy as a whole and the rest of the world.
- 16.47 The table takes its name from the fact that it brings together in one presentation

the institutional sector accounts,

Table 16.4: Summary current account with sector details – uses

| | Uses | | | | | | | | | |
|------------|---|---------------|---------------------------|-----------------------|------------|--------|------------|-------------------|-----------------------|-------------------|
| | | S11 | S12 | S13 | S14 | S15 | S1 | S2 | | |
| Code | Transactions and balancing items | Non-financial | Financial corporations | General government | Households | NPISHs | Fotal | Rest of the world | Goods and services | otal |
| P8 | Imports of goods and services | Z 8 | шδ | <u> </u> | エ | Z | ⊢ō | <u>~ ≥</u> | 499 | <u>eto</u> 499 |
| P7 | Exports of goods | | | | | | | 540 | | 540 |
| | Production account | | | | | | | | 0.004 | 0.004 |
| P1 P2 | Output Intermediate consumption | 899 | 20 | 050 | 694 | 0 | 1 883 | | 3 604 | 3 604 |
| D21 | Taxes on products | 699 | 29 | 252 | 094 | 9 | 1 003 | | 141 | 1 883 141 |
| D21 | Subsidies on products (-) | | | | | | | | - 8 | -8 |
| B1g | Value added, gross / Gross domestic product | 854 | 73 | 188 | 575 | 31 | 1 854 | | | 1 854 |
| P6 | Consumption of fixed capital | 137 | 10 | 30 | 42 | 3 | 222 | | | 222 |
| B1n | Value added, net / Net domestic product | 717 | 63 | 158 | 533 | 28 | 1 632 | | | 1 632 |
| B11 | External balance of goods and services | | | | | | | - 41 | | - 41 |
| D. | Generation of income account | | | | | | | | | |
| B1n D1 | Compensation of employees | 549 | 15 | 142 | 39 | 24 | 769 | | | 769 |
| D2 | Taxes on production and imports | 543 | 13 | 142 | 33 | 24 | 235 | | | 235 |
| D21 | Taxes on products | | | | | | 141 | | | 141 |
| D29 | Other taxes on production | 86 | 3 | 2 | 3 | 0 | 94 | | | 94 |
| D3 | Subsidies | | | | | | - 44 | | | - 44 |
| D31 | Subsidies on products | | | | | | - 8 | | | - 8 |
| D39 | Other subsidies on production | - 35 | 0 | 0 | - 1 | 0 | - 36 | | | - 36 |
| B2n | Operating surplus, net | 117 | 45 | 14 | 60 | 4 | 240 | | | 240 |
| B3n | Mixed income, net | | | | 432 | | 432 | | | 432 |
| | Distribution of primary income account | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| D1 | Compensation of employees | | | | | | | 6 | | 6 |
| D2 | Taxes on production and imports | | | | | | | ŭ | | 0 |
| D3 | Subsidies | | | | | | | | | 0 |
| D4 | Property income | 135 | 189 | 42 | 41 | 6 | 413 | 63 | | 476 |
| B5n | Balance of primary income, net / National income, net | 71 | 5 | 196 | 1 384 | 5 | 1 661 | | | 1 661 |
| | Secondary distribution of income account | | | | | | | | | |
| D.5 | 2 44 6 | | - | 0.40 | | _ | | .= | | |
| D5 | Current transfers | 98 | 277 | 248 | 582 | 7 | 1 212 | 17 | | 1 229 |
| D51 D54 | Current taxes on income, wealth, etc. Other current transfers | 24 12 | 10 62 | 0 136 | 178 71 | 0 2 | 212 283 | 1 16 | | 213 299 |
| D34 | Disposable income, net | 45 | 2 | 315 | 1 222 | 39 | 1 623 | 10 | | 1 623 |
| | Use of disposable income account | | | _ | | | | | | |
| | | | | | | | | | | |
| P3 | Final consumption expenditure | | | 368 | 1 015 | 16 | 1 399 | | | 1 399 |
| D7 | Change in pension entitlements | 0 | 11 | 0 | | 0 | 11 | 0 | | 11 |
| B8g | Saving, gross | 182 | 1 | - 23 | 260 | 26 | 446 | | | 446 |
| B8n | Saving, net | 45 | - 9 | - 53 | 218 | 23 | 224 | | | 224 |
| B12 | Current external balance | | | | | | | - 32 | | - 32 |

Table 16.4: Summary current account with sector details – resources

| | | | | | | | | | R | esources |
|------------|---|-------------------------------|---------------------------|-----------------------|----------------|----------|------------------|----------------------|-----------------------|-----------------|
| - | | S11 | S12 | S13 | S14 | S15 | S1 | S2 | | |
| | | cial | Su | ŧ | ş | | | ø. | 70 | |
| | | nan ratio | cial | ume Jan | hok | န | E S | ŧ | s an | |
| Code | Transactions and balancing items | Non-financial corporations | Financial corporations | General government | Households | NPISHs | Total economy | Rest of the world | Goods and services | [otal |
| P8 | Imports of goods and services | ž 8 | <u>i</u> ⊑ 8 | ල හි | Ĭ | Z | <u> </u> | <u>₹</u> ¥ | ত % | <u>≃</u> 499 |
| P7 | Exports of goods | | | | | | | 433 | 540 | 540 |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| P1 | Production account Output | 1 753 | 102 | 440 | 1 269 | 40 | 3 604 | | | 3 604 |
| P2 | Intermediate consumption | 1733 | 102 | 440 | 1 203 | 40 | 3 004 | | 1 883 | 1 883 |
| D21 | Taxes on products | | | | | | 141 | | 1 000 | 141 |
| D31 | Subsidies on products (-) | | | | | | - 8 | | | - 8 |
| B1g | Value added, gross / Gross domestic product | | | | | | | | | |
| P6 | Consumption of fixed capital | | | | | | | | | |
| B1n | Value added, net / Net domestic product | | | | | | | | | |
| B11 | External balance of goods and services | | | | | | | | | |
| | Generation of income account | | | | | | | | | |
| B1n | Value added, net / Net domestic product | 717 | 63 | 158 | 533 | 28 | 1 632 | | | 1 632 |
| D111 | Compensation of employees | , , , | 00 | 100 | 000 | 20 | 1 002 | | | 1 002 |
| D2 | Taxes on production and imports | | | | | | | | | |
| D21 | Taxes on products | | | | | | | | | |
| D29 | Other taxes on production | | | | | | | | | |
| D3 | Subsidies | | | | | | | | | |
| D31 | Subsidies on products | | | | | | | | | |
| D39 | Other subsidies on production | | | | | | | | | |
| B2n B3n | Operating surplus, net Mixed income, net | | | | | | | | | |
| DOII | wixed income, net | | | | | | | | | |
| | Distribution of primary income account | | | | | | | | | |
| | Operating surplus, gross | 254 | 55 | 44 | 92 | 7 | 452 | | | 459 |
| | Mixed income, gross | 117 | 45 | 14 | 442 60 | 4 | 442 240 | | | 442 247 |
| | Operating surplus, net Mixed income, net | 117 | 43 | 14 | 432 | 4 | 432 | | | 432 |
| D1 | Compensation of employees | | | | 773 | | 773 | 2 | | 775 |
| D2 | Taxes on production and imports | | | 235 | | | 235 | - | | 235 |
| D3 | Subsidies | | | - 44 | | | - 44 | | | - 44 |
| D4 | Property income | 89 | 149 | 33 | 160 | 7 | 438 | 38 | | 476 |
| B5n | Balance of primary income, net / National income, net | | | | | | | | | 0 |
| | | | | | | | | | | |
| | Secondary distribution of income account | 000 | 45 | 000 | 4 400 | 0 | 4 000 | | | 4.000 |
| | Balance of primary incomes, gross / National income, gross Balance of primary income, net / National income, net | 208 71 | 15 5 | 226 196 | 1 426 1 384 | 8 5 | 1 883 1 661 | | | 1 883 1 661 |
| D5 | Current transfers | 71 | 274 | 367 | 420 | 41 | 1 174 | 55 | | 1 229 |
| D51 | Current taxes on income, wealth, etc. | 72 | 214 | 213 | 720 | 71 | 213 | 0 | | 213 |
| D54 | Other current transfers | 6 | 62 | 104 | 36 | 36 | 244 | 55 | | 299 |
| | Disposable income, net | | | | | | | | | |
| | | | | | | | | | | |
| | Use of disposable income account | 400 | 10 | 245 | 1.004 | 40 | 1.045 | | | 1.045 |
| | Disposable income, gross Disposable income, net | 182 45 | 12 2 | 345 315 | 1 264 1 222 | 42 39 | 1 845 1 623 | | | 1 845 1 623 |
| P3 | Final consumption expenditure | 40 | 2 | 313 | 1 222 | 39 | 1 023 | | 1 399 | 1 399 |
| D7 | Change in pension entitlements | | | | 11 | | 11 | 0 | 1 000 | 11 |
| B8g | Saving, gross | | | | | | | | | |
| B8n | Saving, net | | | | | | | | | |
| B12 | Current external balance | | | | | | | | | |
| | | | | | | | | | | |

Table 16.5: Summary of the accumulation accounts and balance sheets with sector details – assets and changes in assets

| | Changes in assets Changes in assets | | | | | | | | | |
|--------------|--|------------------------------|---------------------------|----------------------|-------------------|------------|------------------|----------------------|-----------------------|----------------|
| <u></u> | | S11 | S12 | S13 | S14 | S15 | S1 | S2 | | |
| | | Von-financial coporations | Financial corporations | 3eneral govemment | louseholds | တ္ | Æ | of the | s and es | |
| Code | Transactions and balancing items | Non-fi corpo | Finan | General govemm | House | NPISHs | Total economy | Rest of the world | Goods and services | Total |
| | Capital account | | | | | | | | | |
| B8n B12 | Saving, net Current external balance | | | | | | | | | |
| P5g | Gross capital formation | 278 | 9 | 40 | 68 | 19 | 414 | | | 414 |
| P51n | Net capital formation | 141 250 | - 1 9 | 10 37 | 26 61 | 16 19 | 192 376 | | | 192 376 |
| P51g P6 | Gross fixed capital formation Consumption of fixed capital | - 137 | - 10 | - 30 | - 42 | - 3 | - 222 | | | - 222 |
| AN11 | Gross fixed capital formation by type of asset | | | | | | | | | |
| AN12 AN13 | Changes in inventories Acquisitions less disposals of valuables | 26 2 | 0 | 0 3 | 2 5 | 0 | 28 10 | | | 28 10 |
| NP ANTS | Acquisitions less disposals of valuables Acquisitions less disposals of non-produced assets | - 7 | 0 | 2 | 4 | 1 | 0 | | | 0 |
| D8r | Capital transfers, receivable | | | | | | | | | |
| D8p | Capital transfers, payable | | | | | | | | | |
| | Net lending (+) / net borrowing (–) | - 72 | - 15 | - 93 | 206 | 3 | 29 | - 29 | | 0 |
| | Financial account | | | | | | | | | |
| | Net acquisition of financial assets/liabilities | 63 | 167 | - 6 | 220 | 6 | 450 | 37 | | 487 |
| F1 | Monetary gold and SDRs | | - 1 | | | | - 1 | 1 | | 0 |
| F2 F3 | Currency and deposits Debt securities | 19 7 | 10 62 | - 22 3 | 85 10 | 5 0 | 97 82 | 11 9 | | 108 91 |
| F4 | Loans | 19 | 52 | 3 | 3 | 0 | 77 | 4 | | 81 |
| F5 | Equity and investment fund shares | 10 | 28 | 3 | 76 | 0 | 117 | 2 | | 119 |
| F6 F7 | Insurance, pension and standardised guarantee schemes Financial derivatives and employee stock options | 1 | 7 8 | 1 0 | 39 3 | 0 | 48 14 | 0 | | 48 14 |
| F8 | Other accounts receivable/payable | 4 | 1 | 6 | 4 | 1 | 16 | 10 | | 26 |
| | Other changes n the volume of asssets account | | | | | | | | | |
| AAId | Total other changes in volume | 14 | - 2 | 1 | 2 | 0 | 15 | | | 15 |
| AN1 AN2 | Produced assets Non-produced assets | - 2 14 | - 2 0 | - 3 3 | 0 0 | 0 | - 7 17 | | | - 7 17 |
| AF | Financial assets | 2 | 0 | 1 | 2 | 0 | 5 | | | 5 |
| AF8 | Other accounts receivable/payable | | | | | | 0 | | | 0 |
| | Revaluation account | | | | | | | | | |
| 44/ | | | | | 00 | | 000 | | | 000 |
| AN AF | Non-financial assets Financial assets/liabilities | 144 8 | 4 57 | 44 1 | 80 16 | 8 2 | 280 84 | 7 | | 280 91 |
| | | | | | | | | | | |
| AN | Non-financial assets | 101 | 3 | 32 | 56 | 6 | 198 | | | 198 |
| AF | Financial assets/liabilities | 18 | 71 | 8 | 36 | 3 | 136 | 12 | | 148 |
| ANI | No. formalel contr | 40 | 4 | 10 | 04 | • | 00 | | | 00 |
| AN AF | Non-financial assets Financial assets/liabilities | 43 - 10 | 1 - 14 | 12 - 7 | 24 - 20 | 2 - 1 | 82 - 52 | - 5 | | 82 - 57 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| AN | Non-financial assets | 2 351 | 93 | 789 | 1 429 | 159 | 4 821 | | | 4 821 |
| AF | Financial assets/liabilities | 782 | 3 421 | 396 | 3 260 | 172 | 8 031 | 805 | | 8 836 |
| 441 | Non-Engagin pagets | 200 | 4 | FC | 100 | 0.5 | 400 | | | 400 |
| AN AF | Non-financial assets Financial assets/liabilities | 308 73 | 1 224 | 56 - 4 | 109 238 | 25 8 | 499 539 | 44 | | 499 583 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| AN AF | Non-financial assets Financial assets/liabilities | 2 659 855 | 94 3 645 | 845 392 | 1 538 3 498 | 184 180 | 5 320 8 570 | 849 | | 5 320 9 419 |
| 711 | i mandal assets/ilabilities | 000 | J 043 | JJZ | J 4 30 | 100 | 0 310 | 049 | | 3419 |

Table 16.5: Summary of the accumulation accounts and balance sheets with sector details – liabilities, net worth and changes in them

| | | 044 | 010 | 042 | 014 | 045 | | | iabilities and | net worth |
|-----------------------------------|---|--------------------------|---------------------------|---------------------------|----------------|---------------|------------------------|-----------------------|----------------------------|---|
| Code | Transactions and balancing items | Von-financial Societions | inancial S12 corporations | General ය government ව | S14 sployesnol | S15 SHSIA | Total Sconomy LS | Rest of the so world | Goods and services | Total |
| ooue | | Ζō | шδ | மக | | Z | ⊢ō | ω 3 | 0 க | <u> </u> |
| 88n 812 P5g P51n P51g | Capital account Saving, net Current external balance Gross capital formation Net capital formation Gross fixed capital formation Consumption of fixed capital | 45 | - 9 | - 53 | 218 | 23 | 224 | - 32 | 414 192 376 - 222 | 224 - 32 414 192 376 - 222 |
| AN11 AN12 AN13 NP 08r | Gross fixed capital formation by type of asset Changes in inventories Acquisitions less disposals of valuables Acquisitions less disposals of non-produced assets Capital transfers, receivable | 33 | 0 | 6 | 23 | 0 | 62 | 4 | 28 10 0 | 28 10 (6 |
| D8p | Capital transfers, payable Changes in net worth due to saving and capital transfers | - 16 62 | - 7 - 16 | - 34 - 81 | - 5 236 | - 3 20 | - 65 221 | - 1 - 29 | | - 60 192 |
| | Net lending (+) / net borrowing (–) | | | | | | | | | |
| -4 | Financial account Net lending (+) / net borrowing (-) Net acquisition of financial assets/liabilities | - 72 135 | - 15 182 | - 93 87 | 206 14 | 3 | 29 421 | - 29 66 | | (487 |
| F1 F2 F3 F4 F5 | Monetary gold and SDRs Currency and deposits Debt securities Loans Equity and investment fund shares | 6 17 83 | 73 31 0 22 | 37 34 6 | 0 10 | 0 | 110 71 36 105 | - 2 20 45 14 | | 108 91 81 119 |
| -5 -6 -7 -8 | Insurance, pension and standardised guarantee schemes Financial derivatives and employee stock options Other accounts receivable/payable | 3 26 | 48 8 | 0 0 10 | 0 4 | 0 | 48 11 40 | 0 3 - 14 | | 48 14 26 |
| | Other changes n the volume of asssets account | | | | | | | | | |
| AN1 AN2 | Total other changes in volume Produced assets Non-produced assets | - 3 | 2 | -1 | 0 | 0 | - 2 | | | - 2 |
| AF AF8 | Financial assets Other accounts receivable/payable | - 3 | 2 | - 1 | 0 | 0 | - 2 | | | - 2 |
| | Changes in net worth due to other changes in volume of assets | 17 | - 4 | 2 | 2 | 0 | 17 | | | |
| | Revaluation account Nominal holding gains and losses | | | | | | | | | |
| AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to nominal holding gains/losses Neutral holdinggains and losses | 18 134 | 51 10 | 7 38 | 0 96 | 0 10 | 76 288 | 3 4 | | 79 292 |
| AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to neutral holding gains/losses Real holdinggains and losses | 37 82 | 68 6 | 13 27 | 5 87 | 3 6 | 126 208 | 6 6 | | 132 214 |
| AN AF | Non-financial assets Financial assets/liabilities Changes in net worth due to real holding gains/losses | - 19 52 | - 17 4 | - 6 11 | - 5 9 | - 3 4 | - 50 80 | - 3 - 2 | | - 53 78 |
| | Opening balance sheet | | | | | | | | | |
| AN AF | Non-financial assets Financial assets/liabilities Net worth | 3 221 - 88 | 3 544 - 30 | 687 498 | 189 4 500 | 121 210 | 7 762 5 090 | 1 074 | | 8 836 4 821 |
| AN AF | Total changes in assets and liabilities Non-financial assets Financial assets/liabilities | 150 | 235 | 93 | 14 | 3 | 495 | 69 | | 564 |
| | Changes in net worth, total Changes in net worth due to : | 231 | - 10 | - 41 | 333 | 30 | 535 | 4 | | 539 |
| | Saving and capital transfers Other changes in volume of assets Nominal holding gains/losses Closing balance sheet | 62 17 134 | - 16 - 4 10 | - 81 2 38 | 236 2 96 | 20 0 10 | 230 17 288 | 0 | | 230 17 292 |
| AN | Non-financial assets | | | | | | | | | |

the rest of the world accounts, and

the goods and services account.

16.48 In order to make this table simple but comprehensive, classifications of sectors, transactions and other flows, assets and liabilities are at the highest level of aggregation compatible with understanding the structure of the System. However, columns and rows can be subdivided to introduce sub-sectors or more detailed classifications of transactions and other flows, assets and liabilities.

1. Institutional sector accounts

Current accounts

16.49 As an example of the institutional sectors current accounts, consider the column for non-financial corporations.

The *production account* shows output (1,753) on the right-hand side, intermediate consumption (899) and value added (854 gross, 717 net, the difference referring to consumption of fixed capital (137), on the left-hand side. Value added, the balancing item of the production account, appears again in the same row as a resource of the *generation of income account*.

The uses of the *generation of income account* (compensation of employees (549) and other taxes less subsidies on production (86)) are shown on the left-hand side, the balancing item being net operating surplus (117), which appears again as a resource of the *allocation of primary income account*.

In the *distribution of primary income account*, property income receivable (89) is recorded on the right-hand side, and property income payable (135) is recorded on the left-hand side. The balancing item is the net balance of primary incomes (71), which appears again as a resource of the *secondary distribution of income account*.

The secondary distribution of income account shows current transfers, payable (98) and receivable (72), leading to the balancing item of net disposable income (45). This item, which can also be described as the undistributed income of non-financial corporations, appears as a resource in the use of income account.

The only transaction appearing in *use of income account* for the corporations sectors is an entry for the change in pension entitlements. In this case the entry has a value of zero so the balancing item of the use of income account, saving, has the same value as disposable income.

16.50 The accounts for other institutional sectors may be read the same way, the relevant transactions varying according to the sector involved.

The use of income account

16.51 The presentation of the two ways in which disposable income is associated with final consumption, one taking account of the redistribution of income in kind leading to actual consumption and the other showing final consumption expenditure to disposable income directly, is simplified in table xxx. The redistribution of income in kind account and the use of adjusted disposable income account are merged with the use of income account as follows. Disposable income, net, is 356 for general government, 40 for NPISHs and 1,164 for households. Final consumption expenditure is 368 for government, 16 for NPISHs and 1,015 for households. Social transfers in kind are shown as a use of households (228) and a negative use of government (212) and NPISHs (16). Actual final consumption is then the sum of consumption expenditure and social transfers in kind. This is 1,243 for households, 156 for government and 0 for NPISHs. The sum of total consumption expenditure and the sum of actual final consumption is 1,399. Saving is, as usual, given by disposable income less final consumption expenditure or disposable income plus social transfers in kind less actual final consumption. (Both derivations of saving must also take into account the item for the change in pension entitlements.)

The accumulation accounts

16.52 The accumulation accounts follow the sequence of current accounts for the institutional sectors. For example, net saving of households is 160. Households receive 23 and pay 5 as capital transfers. Thus changes in their net worth due to saving and capital transfers is 178. Households have 61 as gross fixed capital formation (19 as net fixed capital formation after deduction of consumption of fixed capital (42)), 2 as changes in inventories and 5 as acquisitions less disposals of valuables. Their acquisitions less disposals of non-produced non-financial assets (land) are 4. The net lending of households is 148. They incur financial liabilities (net) of 33 and acquire financial assets (net) of 181. Other changes in volume of assets are 2. The value of the assets held by households increases by 96 due to changes in the prices of both non-financial assets (80) and financial assets (16); there are no nominal gains/losses on their liabilities, which means that all

their liabilities are denominated in monetary terms and probably in the national currency of the economy in question.

The balance sheets

16.53 The balance sheets are also part of the integrated economic accounts. In order to see the relationships between the accumulation accounts and balance sheets, take general government as the example. The opening assets are 1,987 (1,591 non-financial assets and 396 financial assets) and the opening liabilities 687, net worth thus being 1,300. The total value of non-financial assets increase by 56, which results from all changes in these assets recorded in the accumulation accounts, gross fixed capital formation, (37), consumption of fixed capital, (-30), acquisitions less disposals of valuables, (3), acquisitions less disposals of non-produced non-financial assets, (2), other volume changes, (1) and nominal holding gains, (44). Financial assets increase by 123 (net acquisition of financial assets, 120, other volume changes, 1, nominal holding gains, 2). On the right-hand side, liabilities increase by 176, which results again from all changes in liabilities recorded in the accumulation accounts (net incurrence of liabilities, (170), other volume changes, (-1), revaluation of liabilities, (7)). So the closing assets are 2,166 (1,647 + 519) and the closing liabilities are 863; closing net worth (1,302) shows an increase over the year of 2. The sources of this change in net worth are summarized on the right-hand side of the account showing the change in balance sheets changes in net worth due to saving and capital transfers (-40, see also the right-hand side of the capital account), to other changes in volume of assets, (2, see also the right-hand side of the other changes in volume of assets account), and to nominal holding gains/losses, (38, see also the right-hand side of the revaluation account).

2. The rest of the world account

- 16.54 As explained earlier, the rest of the world accounts are presented from the viewpoint of the rest of the world. Imports of goods and services (499) are a resource for the rest of the world, even though they represent an outflow from the national economy and exports (540) are a use of the rest of the world. Thus imports appear on the right-hand side of the table and exports on the left. The external account of goods and services is shown at the same level as the production account for institutional sectors. The external balance of goods and services is (-41). With a positive sign, it is a surplus of the rest of the world (a deficit of the nation) and vice versa. The external account of primary incomes and current transfers covers all other current transactions. Starting with the external balance of goods and services (-41) as a resource on the right-hand side, it shows the various kinds of taxes, compensation of employees and other current transfers when appropriate. The current external balance remains 41. Again, with a positive sign, it is a surplus of the rest of the world (a deficit of the nation) and vice versa.
- 16.55 Transactions of the accumulation accounts appear in the columns for the rest of the world when relevant (mainly capital transfers and financial transactions). The rest of the world columns show the assets and liabilities position of the rest of the world vis-à-vis the nation (external assets and liabilities account). The row "changes in net worth due to saving and capital transfers" corresponds, for the rest of the world, to the current external balance and capital transfers.

3. The goods and services account

16.56 In the integrated economic accounts, the goods and services account is shown in a column, not in a row. It reflects the various transactions in goods and services that appear in the accounts of the institutional sectors. Intermediate consumption and final consumption appear as uses in the institutional accounts on the left-hand side of the accounts. For the goods and services account, they appear in the *right*-hand side column, even though the right-hand side is generally reserved for resources and consumption is a use. This device gives a balance for the row for each of the items appearing in the goods and services account. On the resources side of the table, the figures appearing in the column for goods and services are the counterparts of the uses made by the various sectors and the rest of the world: exports (540), intermediate consumption (1,883), final consumption expenditure/actual final consumption (1,399), gross fixed capital formation (376), changes in inventories (28) and acquisitions less disposals of valuables (10). On the use side of the table, the figures in the column for goods and services are the counterparts of the resources of the various sectors and the rest of the world: imports (499) and output (3,604). On the same side taxes less subsidies on products (133) are shown directly in the column for goods and services. They are a component of the value of the supply of goods and services that has no counterpart in the value of the output of any institutional sector.

4. The total economy column

16.57 The columns for the total economy remain to be explained. Except for taxes less subsidies on products and gross and net domestic product, the figures in these columns are simply the sum of the corresponding figures for the institutional sectors. The production account for the total economy includes, as resources, output (that is, the total output of the economy (3,604)) and taxes less subsidies on products (133), the latter being the counterpart of the figure appearing on the left-hand side in the column for goods and services. The uses side of the production account for the total economy shows intermediate consumption (1,883) and domestic product at market prices (1,854 gross, 1,632 net). The latter is the sum of value added of the various sectors and taxes less subsidies on products. Domestic product then appears on the right-hand side as a resource of the generation of income account for the total economy. Taxes less subsidies on products are shown again on the left-hand side in the column for total economy and on the right-hand side as a resource of government (and

the rest of the world if relevant). This double routing of taxes less subsidies on products is made in order to get domestic product, gross and net, directly in the overall accounts, as explained above.

16.58 The other items in the columns for total economy are self-explanatory. National income at market prices (1,883 gross, 1,661 net) is shown directly as the sum of balance of primary incomes of the various sectors; national disposable income, national saving, etc. are also obtained directly.