

## Arab Republic of Egypt Central Agency for Public Mobilization and Statistics

# A Regionalized Social Accounting Matrix for the Egyptian Economy 2014/2015



**June 2019** 







# <u>Central Agency for Public Mobilization and Statistics</u> <u>Arab Republic of Egypt</u>

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#### **Preface**

The Central Agency for Public Mobilization and Statistics (CAPMAS) is pleased to present the first regionalized Social Accounting Matrix (SAM) for Egypt for 2014/2015, This SAM marks a major milestone in "localizing" development research and policy in Egypt and is expected to be most valuable for the development, implementation, and assessment of Egypt's national and local development plans, like Egypt's Sustainable Development Strategy 2030. With this data it becomes possible to provide a detailed, socioeconomic status update for different regions within Egypt. As such, the disaggregated SAM allows for analyzing developmental issues at regional level and to better understand the potential impacts of policy changes at the local level.

The availability of comprehensive and coherent socio-economic data is an essential requirement to the development of any national strategic plan and so compiling and presenting that data in a specific format (as a social accounting matrix) provides the required database as an input to using Computable General Equilibrium (CGE) Models for policy analysis.

In building the Egypt reginal SAM 2014/2015, the SAM of year 2010/2011 was used as a reference year and the Supply and Use Tables 2012/2013, In addition to the regional dimension that has been added.

Construction of the Egypt reginal SAM was in collaboration with the International Food Policy Research Institute (IFPRI), and under the technical supervision of Mr. Kotb Salem National Accounts expert.

CAPMAS looks forward to receiving feedback and comments of those interested in economic and financial studies, especially studies that may contribute improving and building upon this body of work. The Egypt reginal SAM for 2014/2015 shall be accessible for all interested users online through our official website.

Major General/ Khairat Barakat
President of the Central Agency for Public
Mobilization and Statistics

#### Acknowledgment

The staff of the General Department of National Accounts extend their thanks and appreciation to all those who collaborated with us in preparing for and producing this significant statistical output. We would like to pay special tribute to Major General Khairat Barakat, President of CAPMAS, for his continuous and on-going support to the Department's staff.

We would like to thank IFPRI for the technical support it provides to CAPMAS, especially that provided by Dr. James Thurlow, Ms. Josee Randriamamonjy, Dr. Mariam Raouf, and Dr. Clemens Breisinger, all of IFPRI. Their support has expanded our social accounting matrix construction skills to build regional SAMs. We are now confident that we will be able to construct future regional SAMs for Egypt and look forward to continuing the collaboration with IFPRI.

We hope that this work realizes its objective, which is to benefit economic researchers, analysts, and decision makers; and ultimately, to provide considerable added value to the work of CAPMAS, in general, and to the Department of National Accounts, in particular.

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#### **First Section**

#### 1. Introduction

Any economy depends, in its formation, on an array of interwoven relationships and linkages among production, consumption, investment and saving, its various sectors and its relationship with the outside world. These relationships and interlinkages can be captured in a moment in time in a table of these flows known as a social accounting matrix or more commonly known as, a SAM.

This matrix was constructed as a preliminary step towards building a socio-economic tool that able to provide a comprehensive and coherent socio-economic database. Portraying the above mentioned relationships and linkages, the SAM provides the database needed for further analysis.

The availability of statistical data, mainly, the supply and use tables constructed by CAPMAS for 2012/2013, and SAM 2010/2011 has greatly facilitated the construction of the 2014/2015 reginal SAM for the Egyptian economy. It includes 62 sectors and 66 products. It also includes 13 factors of production, labor is disaggregated across rural and urban areas and into four education-based categories, capital is also disaggregated into four subcategories: crops, livestock, mining, and other; and land. Moreover, the new SAM has 105 household groups that are disaggregated by national per capita expenditure quintiles, then split into national rural farm, rural nonfarm, and urban households. Sectoral production, factor markets, and household groups are split into seven subnational regions: Greater Cairo, Delta, Alexandria, Northern Upper Egypt, Middle Upper Egypt, Southern Upper Egypt, and Suez Canal. In total, the regional 2015 SAM is composed of 646 rows x 646 columns.<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> In contrast, the previous national 2010/11 SAM had only 136 row and columns. Specifically, it included 52 activities and 49 commodities, only three types of factors of production, with labor disaggregated into three categories based on skill levels; and the household sector was divided into urban and rural, and disaggregated into 10 deciles according to expenditures. All the accounts were constructed on the national level with no regional disaggregation.

#### 2. A Social Accounting Matrix (SAM)

A national social accounting matrix (SAM) is an economy-wide data framework that captures the detailed economic structure of a country. A SAM is a square matrix in which each account is represented by a row and a column. Each cell reflects a payment from the column account to the row account, i.e., incomes appear along rows and expenditures along columns. Double-entry accounting requires that, for each account, total revenue (row total) equals total expenditure (column total). Table 1 shows an aggregate SAM, with verbal explanations in place of numbers.

- Activities and commodities: Standard SAMs created under the Nexus project<sup>3</sup> distinguish between "activities" (entities that carry out production) and "commodities" (representing markets for goods and non-factor services). SAM flows are valued at producer prices in activity accounts and at market prices in commodity accounts, i.e., inclusive of indirect taxes and transactions cost margins. Commodities consist of activity outputs, either exported or sold domestically, and imports. In the activity columns, payments are made to commodities (intermediate demand) and factors of production (value-added, equal to operating surplus and compensation of employees). In the commodity columns, payments are made to domestic activities, the rest of the world, and various tax accounts (for domestic and import taxes).
- Government income and payments: The government in a Nexus SAM is disaggregated into a core government account and various tax collection accounts. Tax accounts are necessary since otherwise the economic interpretation of certain payments becomes ambiguous. Direct payments between the government and other domestic institutions are reserved for transfers. Payments from the government to factors are captured in the government services activity. Government consumption demand is a purchase of the output from the government services activity, which, in turn, pays labor.
- Domestic nongovernment institutions: Domestic nongovernment institutions consist of
  households and enterprises. Enterprises earn factor incomes, reflecting their ownership of
  capital, and receive transfers from other institutions. Enterprise incomes are used for
  corporate taxes, enterprise savings, and transfers to other institutions. Unlike households,
  enterprises do not demand commodities. In the SAM, enterprises are an aggregation of

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<sup>&</sup>lt;sup>3</sup> The Nexus Project is a collaboration between international organizations and national statistical agencies and research institutions to improve the quality of social accounting matrices (SAMs) used for country-level computable general equilibrium (CGE) modeling. The Nexus Project establishes common data standards, procedures and classification systems for constructing and updating national SAMs. The Nexus Project addresses the need for greater transparency and consistency in SAM construction in order to strengthen model-based research and policy analysis in developing countries. It also supports more robust cross-country comparisons of economic structure and policy. The guiding principle of the Nexus Project is that all SAM data should be traceable to its original sources and/or assumptions. Nexus SAMs are freely available online or from collaborating organizations and statistical agencies.

financial and nonfinancial corporations, as defined within the System of National Accounts (SNA).

• Household consumption: Nexus SAMs distinguish between home (own) consumption of activities and marketed consumption of commodities by households. Home consumption, which appears in the SAM as payments from household accounts to activity accounts, is valued at producer prices, i.e., without marketing margins and sales taxes that may be levied on marketed commodities. Final household consumption of marketed commodities appears as payments from household accounts to commodity accounts, valued at consumer prices, including marketing margins and taxes.

**Table 1: Standard Nexus Macro Social Accounting Matrix** 

	Activities	Commod- ities	Factors	Enterprises	Households	Government	Taxes	Investment	Rest of the World	Total
Activities		Marketed outputs			Private non- marketed consumption					Activity income
Commod- ities	Intermediate demand	Transaction costs			Private marketed consumption	Government consumption		Gross capital formation	Exports	Total demand
Factors	Value-added								Foreign transfers to factors	Factor income
Enterprises			Factor income to enterprises			Government transfers to enterprises			Foreign transfers to enterprises	Enterprise income
Households			Factor income to households	Enterprise transfers to households		Government transfers to households			Foreign transfers to households	Household income
Taxes	Taxes on producers	Taxes on products	Factor taxes	Corporate taxes	Household taxes					Tax income
Government				Enterprise transfers to government	Household transfers to government		Tax revenues paid to government		Foreign transfers to government	Government income
Savings				Enterprise savings	Household savings	Government savings			Foreign savings	Savings
Rest of the World		Imports	Factor payments abroad	Enterprise payments abroad	Household payments abroad	Government payments abroad				Foreign exchange outflow
Total	Activity expenditures	Total supply	Factor expenditures	Enterprise expenditures	Household expenditures	Government expenditures	Tax payments	Investment	Foreign exchange inflow	

#### 3. Standard Nexus Social Accounting Matrix Accounts:

- Activities and commodities: Standard SAMs created under the Nexus project separate domestic production into 86 activities, as shown in Table 2. Each activity represents a group of industries from the International Standard Industrial Classification system (ISIC Revision 4) (UNDESA 2008). The 4-digit ISIC codes corresponding to each SAM activity are shown in Table A1 in the Appendix. Agricultural activities are further disaggregated using FAO's classification system, as shown in Table A2 in the Appendix. Information on production technologies comes from national input-output tables (IOT) or supply-use tables (SUT). Activities and commodities have a one-to-one mapping based on a concordance between ISIC industries and Harmonized System products (HS Version 2007). Some countries' national accounts capture how activities can produce multiple commodities - this information is discarded in Nexus SAMs. (See the description of Egypt's SAM in Section 5.)
- **Factors of production**: Nexus SAMs separate factors into three broad categories: labor, land, and capital. Labor is further disaggregated across rural and urban areas and into four education-based categories, as shown in Table 3. Nexus SAMs follow official definitions of "rural" and "urban" areas, which may vary between countries, but are consistent with the definitions used in national and international statistics.<sup>4</sup> There is greater consistency in education categories across countries since these are based on the number of years of schooling that workers report having completed (see the notes provided in Table 3). Information on total labor value-added as a share of sectoral gross domestic product (GDP) is drawn from national IOTs or SUTs. This is disaggregated across labor subcategories using wage and salary data as well as imputed earnings for unpaid family members as reported in household and labor force surveys (see Section 5).

Capital is disaggregated into four subcategories: crops, livestock, mining, and other. Crop capital in each crop-based agricultural activity is the portion of gross operating surplus (GOS) and mixed income that is reported in national IOTs or SUTs and that is not assigned to either labor or land factors, i.e., it is a residual. Livestock capital is the total GOS generated in the three livestock activities, i.e., cattle, poultry, and other livestock, while mining capital is the total GOS earned in the four mining activities, i.e., coal and lignite, crude oil, natural gas, and other mining. Crop and livestock capital are separated from mining and other capital, since, in Nexus SAMs, the former are paid directly to households, while the latter are paid to enterprises. Mining capital is separated from "other" capital because its earnings are often subject to mining-specific taxes and royalties, and they are more likely to be repatriated to foreign-based companies.

<sup>&</sup>lt;sup>4</sup> Rural and urban status is based on workers' reported place of residence, rather than their place of work. This is consistent with most household and labor force surveys, and hence with most official statistics.

Table 2. Activities and Commodities in the Standard Nexus Social Accounting Matrix

Code	Description	Code	Description	Code	Description
maiz	Maize	eggs	Eggs	clth	Clothing
sorg	Sorghum and millet	smlr	Small ruminants	leat	Leather and footwear
rice	Rice	oliv	Other livestock	wood	Wood products
whea	Wheat and barley	fore	Forestry	papr	Paper products and publishing
ocer	Other cereals	aqua	Aquaculture	petr	Petroleum products
puls	Pulses	fish	Capture fisheries	fert	Fertilizers and herbicides
gnut	Groundnuts	coal	Coal and lignite	chem	Other chemicals
oils	Other oilseeds	coil	Crude oil	nmet	Non-metal minerals
cass	Cassava	ngas	Natural gas	metl	Metals and metal products
ipot	Irish potatoes	omin	Other mining	mach	Machinery & other equipment
spot	Sweet potatoes	meat	Meat processing	equi	Electrical equipment
root	Other roots	fsea	Fish & seafood processing	vehi	Vehicles & transport equipment
leaf	Leafy vegetables	dair	Dairy	oman	Other manufacturing
vege	Other vegetables	fveg	Fruit & vegetable processing	elec	Electricity, gas and steam
sugr	Sugarcane	foil	Fats and oils	watr	Water supply and sewage
toba	Tobacco	mmll	Maize milling	cons	Construction
cott	Cotton and fibres	smll	Sorghum and millet milling	trad	Wholesale and retail trade
nuts	Nuts	rmll	Rice milling	tran	Transportation and storage
bana	Bananas & plantains	wmll	Wheat and barley milling	hotl	Accommodation
frui	Other fruits	gmll	Other grain milling	rest	Restaurants and food services
teal	Leaf tea	sref	Sugar refining	comm	Information & communication
coff	Coffee	pcof	Coffee processing	fsrv	Finance and insurance
coco	Cocoa	ptea	Tea processing	real	Real estate activities
flwr	Cut flowers	food	Other foods	bsrv	Business services
rubb	Rubber	feed	Animal feed	padm	Public administration
ocrp	Other crops	beve	Beverages	educ	Education
catt	Cattle	ptob	Tobacco processing	heal	Health and social work
milk	Raw milk	yarn	Cotton yarn	osrv	Other services
poul	Poultry	text	Textiles		

**Table 3. Factors in the Standard Nexus Social Accounting Matrix** 

Code	Description	Notes
Labor		
flab-rn	Labor - rural uneducated	0-6 years of formal schooling
flab-rp	Labor - rural primary	7-11 years of formal schooling
flab-rs	Labor - rural secondary	12+ years of formal schooling and/or incomplete tertiary education
flab-rt	Labor - rural tertiary	Completed tertiary education (e.g., degree, certificate, diploma)
flab-un	Labor - urban uneducated	0-6 years of formal schooling
flab-up	Labor - urban primary	7-11 years of formal schooling
flab-us	Labor - urban secondary	12+ years of formal schooling and/or incomplete tertiary education
flab-ut	Labor - urban tertiary	Completed tertiary education (e.g., degree, certificate, diploma)
Land		
fInd	Land - agricultural crops	Harvested crop land
Capital		
fcap-c	Capital - crops	For agricultural crops (e.g., tractors, irrigation infrastructure)
fcap-l	Capital - livestock	For livestock (e.g., live animals, paddocks, beehives)
fcap-m	Capital - mining	For mining (e.g., mineral resources, mining equipment)
fcap-o	Capital - other	For all other sectors, including forestry and fisheries

**Households**: Nexus SAMs separate national populations into 15 representative household groups, as shown in Table 4. As with labor, the SAM distinguishes between rural and urban households using a country's official definition of these areas. Rural households are further disaggregated into households that earn crop and/or livestock incomes, i.e., farm households, and those that do not earn incomes from either source, i.e., nonfarm households.

**Table 4. Household Types in the Standard Nexus Social Accounting Matrix** 

		<del>_</del>
Code	Description	Notes
hhd-f1	Rural farm - quintile 1	Rural households with crop and/or livestock incomes separated
hhd-f2	Rural farm - quintile 2	into national per capita expenditure quintiles
hhd-f3	Rural farm - quintile 3	
hhd-f4	Rural farm - quintile 4	
hhd-f5	Rural farm - quintile 5	
hhd-n1	Rural nonfarm - quintile 1	Rural households without crop and/or livestock incomes
hhd-n2	Rural nonfarm - quintile 2	separated into national per capita expenditure quintiles
hhd-n3	Rural nonfarm - quintile 3	
hhd-n4	Rural nonfarm - quintile 4	
hhd-n5	Rural nonfarm - quintile 5	
hhd-u1	Urban - quintile 1	Urban households with or without crop and/or livestock incomes
hhd-u2	Urban - quintile 2	separated into national per capita expenditure quintiles
hhd-u3	Urban - quintile 3	
hhd-u4	Urban - quintile 4	
hhd-u5	Urban - quintile 5	
-		

Households are further disaggregated into per capita expenditure quintiles. Quintiles are defined at the national level, meaning that rural and urban quintiles are comparable, and the combined population of each quintile is a fifth of the national population. Per capita expenditure groups are not adjusted for adult-equivalency and include all consumption expenditure items reported in national household surveys. The latter implies that the definition of quintiles in

Nexus SAMs may deviate slightly from those based on poverty-oriented consumption measures, which may exclude "non-essential" nonagricultural expenditure items (e.g., airplane tickets or gambling).

**Other accounts**: The remaining accounts in the Nexus SAMs are shown in Table 5. These include the transaction costs of moving goods between producers, domestic markets, and national borders, as well as the various indirect taxes imposed on marketed commodities.

**Table 5. Accounts in the Standard Nexus Social Accounting Matrix** 

Code	Description	Notes
a	Activities	See Table 2 for the list of activity accounts
C	Commodities	See Table 2 for the list of commodity accounts
f	Factors	See Table 3 for the list of factor accounts
h	Households	See Table 4 for the list of household accounts
trc	Transaction costs	From moving goods between producers, markets, and/or borders
ent	Enterprises	Financial and non-financial corporations
gov	Government	Government as an institution, not as a producing activity
atax	Taxes - activity	Indirect taxes on producers
dtax	Taxes - direct	Direct taxes on enterprises and households
etax	Taxes - export	Indirect taxes on exports
ftax	Taxes - factor	Direct taxes on factor incomes
mtax	Taxes - import	Indirect taxes on imports (import duties)
stax	Taxes - sales	Indirect taxes on domestic sales (VAT, GST and excise duty)
s-i	Savings-investment	Investment is gross fixed capital formation
dstk	Change in stocks	Inventory accumulation or depletion
row	Rest of world	All foreign countries and economies
total	Total	Row and column totals

**Sex-disaggregated and regional accounts**: Standard Nexus SAMs often include variants with more detailed accounts. Each SAM variant aggregates back to the Standard Nexus SAM (note that the 86-sector national SAM is labeled "v86N"). It should be noted that adding more detail to a SAM often requires greater use of assumptions and proxy variables for distributing incomes and expenditures, and it can stretch the representativeness of survey data. The Nexus Project therefore publishes its national SAMs separately from its regional and gendered SAMs.

Gendered Nexus SAMs (v86G) disaggregate each labor category in Table 3 into male and female workers. Land, livestock, and agricultural capital are disaggregated based on the gender of the *de jure* household head whose household reports incomes from these factors. Each household group in Table 4 are disaggregated according to whether they have a male or female household head. Accounts that change between the Standard and Gendered Nexus SAMs are shown in Table 6.

**Table 6. Gendered Accounts in the Nexus Social Accounting Matrix** 

Code	Description
flabm	Male labor (see Table 3 for further codes)
flabf	Female labor (see Table 3 for further codes)
flnd-m	Crop land owned by male-headed households
fInd-f	Crop land owned by female-headed households
fcap-c-m	Crop capital owned by male-headed households
fcap-c-f	Crop capital owned by female-headed households
fcap-l-m	Livestock capital owned by male-headed households
fcap-I-f	Livestock capital owned by female-headed households
hhdm	Male headed households (see Table 4 for further codes)
hhdf	Female headed households (see Table 4 for further codes)

**Regional Nexus SAMs** (v70R) aggregate the 86 activities into 70 activities, which are in turn disaggregated by subnational region. A mapping between N86 and N70 can be found in Table A3 in the Appendix. In some cases, only certain activities, such as agriculture, are regionally disaggregated due to data limitations. All factors and households are defined by region, except for mining and "other" capital. Accounts that change between the Standard and Regional Nexus SAMs are shown in Table 7.

**Table 7. Regional Accounts in the Nexus Social Accounting Matrix** 

Code	Description
ar	Activities by numbered region of operation (see Table 1 for further codes)
flabr_	Labor by numbered region of employment (see Table 2 for further codes)
flnd- r_	Crop land by numbered region
fcap-c- r_	Crop capital by numbered region of use
fcap-l- r_	Livestock capital by numbered region of use
hhd r_	Households by numbered region (see Table 4 for further codes)

Country-specific deviations from the standard structure: The SAM structure presented above represents the minimum level of disaggregation required of a Nexus SAM. Some countries have more disaggregated accounts, but these can always be aggregated to the Standard Nexus accounts. Section 5 documents any extensions to the Standard Nexus SAM structure that were used in developing the SAM for Egypt.

#### **Second Section**

#### 1. Nexus Social Accounting Matrix Entries and General Data Sources

The previous section outlined the broad structure of a Nexus SAM, including its standardized classification of accounts. This section describes the information included in each row and column entry in the SAM. One advantage of Nexus SAMs is that the Macro SAM has a common classification or definition of cell entries. This section describes each of the blocks of cells in the Macro SAM following the numbered sequence shown in Table 8.

#### • Intermediate demand (Commodities | Activities)

**Definition**: Intermediate demand includes payments by activities for the commodities used as non-factor inputs in production processes. For example, payments by the maize activity to the chemical commodity for the fertilizer inputs used to grow maize.

Estimation: Intermediate demand for each activity is estimated in three steps. First, the ratio of total intermediate demand to total value-added in each activity is derived from national IOT/SUTs and, where available, updated using more recent national accounts and/or agricultural and industrial survey data. Second, this ratio is used to derive the absolute level of total intermediate demand based on the estimated level of activity value-added (see Entry 2 below). Third, total intermediate payments are disaggregated across individual commodities using shares derived from national IOT/SUTs. Note that IOT/SUTs are usually only updated when national statistical agencies rebase national accounts. The quality or accuracy of intermediate input coefficients therefore declines over time until such time as the underlying IOT/SUTs are updated. The description of each SAM in Section 5 indicates the IOT/SUT's benchmark year.

**Table 8: Numbered Entries in a Standard Nexus Social Accounting Matrix** 

	Activities	Commod- ities	Factors	Enterprises	Households	Government	Taxes	Investment	Rest of the World
Activities		4			17				
Commod- ities	1	5			18	23		29	31
Factors	2								32
Enterprises			8			24			33
Households			9	12		25			34
Taxes	3	6	10	13	19				
Government				14	20		28		35
Savings				15	21	26		30	36
Rest of the World		7	11	16	22	27			

#### • Value-added (Factors | Activities)

**Definition**: Value-added is the returns earned by factors during the production process, such as labor wages and salaries, land rents, and capital profits. Land and capital includes gross operating surplus (GOS), part of which may be reported as "mixed income" in national accounts or IOT/SUTs.

Estimation: Total value-added by activity is estimated in two steps. First, national accounts report the level of gross domestic product (GDP measured in basic prices) for aggregate sectors and these are assigned to groups of SAM activities. Second, aggregate GDP estimates are disaggregated to the level of the SAM activities using information on sub-sectoral production from sources beyond national accounts. The value of activity level agricultural production is estimated using production quantity and producer price data from national Ministries of Agriculture or from the FAO's FAOSTAT database (FAO 2015). Total value-added in each agricultural sector is estimated by multiplying the ratio of GDP to gross output (derived from IOT/SUTs) by the estimated value of activity gross output. Similarly, information on activity-level industrial production is derived from manufacturing or industrial surveys.

Labor value added is disaggregated across the worker categories in Table 3 using national household and/or labor force survey data.<sup>5</sup> Workers in these surveys report their sector and location of employment, their remuneration levels, and their education levels. Earnings from farm and non-farm enterprises are usually reported at the household level, and these are assigned to individual household members based on their reported employment status and sector of employment. It is assumed that paid and unpaid family members earn equal shares of household enterprise incomes (net of input costs).

#### • Taxes on producers (Taxes | Activities)

**Definition**: Net taxes on production (or net subsidies if SAM value is negative).

**Estimation**: The total value of activity taxes (a tax) is taken from the IMF's GFS and includes "taxes on payroll and workforce" (GFSM code 112). This is disaggregated across activities using information from national tax authorities and/or from the IOT/SUT. For the latter, tax rates are derived from the IOT/SUT and then applied to the sectoral value of GDP and intermediate payments (see Entries 1 and 2). This provides an initial estimate of net activity tax payments, which are then scaled to match the total value of activity tax collections.

#### • Marketed output (Activities | Commodities)

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<sup>&</sup>lt;sup>5</sup> The national household surveys used to build Nexus SAMs are often the same as the surveys used to estimate poverty rates or the weights for the consumer price index. These surveys are similar to the World Bank's Living Conditions Monitoring Surveys (LCMS).

**Definition**: Value of domestically produced goods and services that are supplied to markets, either for domestic use or for export. Marketed output is net non-marketed or home produced and consumed goods and services (see Entry 18).

**Estimation**: This is a residual balancing item for activities. The value of gross output less the value of non-marketed consumption is paid from each activity to its corresponding commodity, thereby balancing activity rows and columns.

#### • Transaction costs (Commodities | Commodities)

**Definition**: Trade and transport costs associated with moving goods between producers, markets and national borders, either for domestic, import or export trade. For example, exporters incur transport fees when moving goods from their factories to the national border, whereas importers incur fees when delivering goods to domestic markets.

**Estimation**: There are two approaches to estimating transaction costs in Nexus SAMs. First, margin payments as a share of total demand are estimated using past IOT/SUTs. These rates are then applied to total demand estimates in the SAM to derive new transaction costs. Second, margins are estimated by the gap between producer and market prices, net of indirect taxes, using price data provided by national statistical agencies. The first approach is preferred and is the one typically used for Nexus SAMs (see detailed description of each SAM's data sources for information on which approach was used). Finally, transaction cost margins generate income for trade and/or transport activities.

#### • Taxes on products (Taxes | Commodities)

**Definition**: All indirect taxes imposed on goods and services (or net subsidies if SAM value is negative).

**Estimation**: Nexus SAMs separate taxes on products into three categories: sales taxes

(s tax), export taxes (etax), and import tariffs (mtax) (see Table 4). The total value of tax collections is taken from the IMF's GFS. Sales taxes are "taxes on goods and services" (GFSM code 114), which is a summation of various tax instruments, most importantly value-added taxes (GFSM 11411), sales taxes (GFSM 11412), and excise duties (GFSM 1142). Import tariffs (mtax) are "taxes on international trade and transactions" (GFSM 115), excluding "taxes on exports" (GFSM 1152), which are assigned to export taxes in the SAM.

Tax revenues are disaggregated across commodities using national tax authority data and/or tax rates estimated from the IOT/SUT. If the IOT/SUT is outdated, then weighted import tariff rates are taken from the United Nations Conference on Trade and Development's Trade Analysis and Information System (TRAINS) (UNCTAD 2015). Tax rates are applied to the level of domestic sales, imports or exports (see

Entries 7 and 32). This provides an initial estimate of commodity level tax payments, which are then scaled to match the total value of each tax revenue category, as estimated above.

#### • Imports (Rest of World | Commodities)

**Definition**: Value of goods and services imported from abroad, less the cost of carriage, insurance and freight.

**Estimation**: The total value of imports is taken from national accounts, and this is then disaggregated into total goods and total services using current account data from the IMF's BOPS (i.e., BPM6 codes BMG for "goods, debit" and BMS for "services, debit"). BOPS provides detailed information on services imports by commodity and this is used to assign imports to service commodities in the SAM (see Table A5 in the appendix). Goods imports are disaggregated across commodities using 6-digit HS gross import flows from the United Nations Commodity Trade Statistics (COMTRADE) database (UNSD 2015).

#### • Factor income to enterprises (Enterprises | Factors)

**Definition**: Mining and "other" capital payments to enterprises, after paying factor taxes and making transfers to the rest of the world (see Entries 10 and 11). These payments equal gross operating surplus, which includes the value of consumption of fixed capital during the production process.

**Estimation**: This is a residual balancing item for the mining and other capital accounts. Total capital income less capital taxes and foreign transfers is paid to the enterprise account, thereby balancing mining and other capitals' rows and columns.

#### • Factor income to households (Households | Factors)

**Definition**: Labor, land and agricultural capital payments to households, after paying factor taxes and making transfers to the rest of the world (see Entries 10 and 11). These payments equal compensation to workers and returns to land and agricultural capital.

**Estimation**: This is a residual balancing item for labor, land and agricultural capital accounts (i.e., crop and livestock capital). Total factor incomes less factor taxes and foreign transfers are paid to individual household accounts, thereby balancing these factors' rows and columns. Labor payments to households are disaggregated across household and labor categories using information from national household or labor force surveys (see Entry 2 on treatment on workers' shares of household enterprise incomes). Land and agricultural capital payments to households are disaggregated using survey households' reported incomes from agricultural crops and livestock.

#### • Factor taxes (Taxes | Factors)

**Definition**: Direct taxes paid by mining and "other" capital to the government.

**Estimation**: The value of capital tax collections is taken from the IMF's GFS. Factor taxes are "taxes on property" (GFSM code 113), which is a summation of various taxes, including wealth and estate taxes and capital levies.

#### Factor payments abroad (Rest of World | Factors)

**Definition**: Labor, land and capital incomes paid to foreign households or enterprises. For example, workers belonging to foreign households may earn some or all of their labor incomes in domestic industries and this income may be repatriated back to these workers' home countries. Similarly, some profits generated by foreign-owned mining companies may be repatriated to company headquarters in another country.

**Estimation**: Factor transfers to the rest of the world are from the IMF's BOPS. Labor transfers are "compensation of employees, debit" (BPM6 code BMIPCE). Capital transfers are "investment income, debit" (BPM6 BMIPI), which includes, amongst others, payments on equity and investment funds to foreign investors.

#### • Enterprise transfers to households (Households | Enterprises)

**Definition**: Indirect capital payments by enterprises to households, after paying corporate taxes and saving and making transfers to government and the rest of the world (see Entries 13, 14, 15 and 16). This includes indirect gross operating surplus paid from the earnings of household nonfarm enterprises.

**Estimation**: This is a residual balancing item for the enterprise account. Total enterprise income less taxes and transfers is paid to households, thereby balancing the enterprise row and column. Enterprise earnings are paid to households based on households' earnings from nonfarm enterprises, dividends and private pension funds as reported in national household surveys.

#### • Corporate taxes (Taxes | Enterprises)

**Definition**: Corporate and other direct taxes paid by enterprises to the government.

**Estimation**: The total value of taxes collected from enterprises is taken from the IMF's GFS. This includes taxes "payable by corporations and other enterprises" (GFSM code 1112) and "other taxes on income, profits, and capital gains" (GFSM 1113).

#### • Enterprise transfers to government (Government | Enterprises)

**Definition**: Transfers from enterprises to governments, other than direct tax payments (see Entry 13). For example, domestic banks may provide loans to the government, or parastatal enterprises may pay dividends or repay loans to the general government. Enterprises may also contribute to public social welfare schemes on behalf of their employees.

**Estimation**: Transfers received by the government from financial and non-financial corporations are taken from the IMF's GFS. This is "property income" (GFSM code 141), which includes, amongst others, interest and dividend payments and payments

for rented public property. Transfers from enterprises also include "other taxes" (GFSM 116), which are either paid by business or are unidentifiable. Finally, enterprises include employer contributions to social security (GFSM 1212) and other social schemes (GFSM 1222).

#### • Enterprise savings (Savings | Enterprises)

**Definition**: Domestic private savings by enterprises. This includes reinvested earnings as well as the value of the consumption of fixed capital (i.e., provision for capital depreciation).

**Estimation**: Total domestic private savings is back-calculated by subtracting public and foreign savings from the value of gross capital formation (see Entries 21, 26, 29 and 36). Unfortunately, few developing countries have the detailed national accounts data needed to disaggregate domestic private savings across enterprises and households. Accordingly, in the absence of detailed information, the Nexus SAMs assume that enterprises and households have similar savings rates, after enterprises have subtracted their allowance for the depreciation of working capital.

#### • Enterprise payments abroad (Rest of World | Enterprises)

**Definition**: Secondary income transfers from domestic financial and non-financial enterprises to the rest of the world.

**Estimation**: The value of enterprise foreign payments comes from the IMF's BOPS. This includes "other transfers, debit" (BPM6 code BMISOOT).

#### Private non-marketed consumption (Activities | Households)

**Definition**: Activity output that is both produced and consumed within the household, i.e., "own" or "home" consumption.

**Estimation**: Non-marketed consumption is estimated in three steps. First, the share of total private consumption for each Nexus SAM commodity is estimated using aggregate private consumption from national accounts and commodity-level consumption from national household surveys. Second, the share of home consumption in total consumption of each commodity is estimated using the household surveys, and this share of then used to separate total commodity consumption into marketed and non-marketed components. Third, home consumption is disaggregated across household groups using household survey data. Home consumption is defined as any products not purchased in markets, including the consumption of both home-produced products and products received "in-kind" from other households (i.e., without monetary payment).

#### • Private marketed consumption (Commodities | Households)

**Definition**: Commodities that are purchased in markets and consumed by households.

**Estimation**: Marketed consumption is estimated in three steps. First, the share of total private consumption for each Nexus SAM commodity is estimated using aggregate private consumption from national accounts and commodity-level consumption from national household surveys. Second, the share of home consumption in total consumption of each commodity is estimated using the household surveys, and this share of then used to separate total commodity consumption into marketed and non-marketed components. Third, marketed consumption is disaggregated across household groups using household survey data. Marketed consumption is defined as any products purchased in markets, i.e., not home produced or received "in-kind" from other households.

#### • Household taxes (Taxes | Households)

**Definition**: Direct income or personal taxes paid by households. For example, households often "pay as you earn" (PAYE) taxes to the government based on their wages and salaries.

**Estimation**: Total tax collection is taken from the IMF's GFS. It includes taxes on income, profits and capital gains that are "payable by individuals" (GFSM code 1111). This is disaggregated across the household groups in the Nexus SAMs using personal income tax rates reported by households in the national household survey. If tax data if not available or is poorly captured in the survey, then incomes from secondary and tertiary educated labor is used as a proxy for disaggregating total direct tax collections (see Table 3).

#### • Household transfers to government (Government | Households)

**Definition**: Payments by household to the government other than for direct taxes (see Entry 19). For example, households may contribute to public social welfare schemes, including retirement and healthcare funds.

**Estimation**: The total value of transfers is taken from the IMF's GFS. This is social security and other social contributions, including payments by employees (GFSM codes 1211 and 1221), self-employed and unemployed people (GFSM 1213), and unallocable and imputed contributions (GFSM 1214 and 1223). Household transfers to government also include various other revenue sources, including from sales of goods and services (GFSM 142), and fines penalties and forfeits (GFSM 143).

#### • Household savings (Savings | Households)

**Definition**: Domestic private savings by households.

Estimation: Total domestic private savings is back-calculated by subtracting public and foreign savings from the value of gross capital formation (see Entries 21, 26, 29 and 36). Unfortunately, few developing countries have the detailed national accounts data needed to disaggregate domestic private savings across enterprises and households. Accordingly, in the absence of detailed information, the Nexus SAMs assume that enterprises and households have similar savings rates, after enterprises have subtracted their allowance for the depreciation of working capital. Household savings are then disaggregated across household groups in the SAM using information from national household surveys. Although survey households often report the value of deposits made into bank accounts or the amount of savings during the year, including private pension contributions, this information is often poorly captured. In such cases, proxy indicators are derived from household earnings from enterprises and incomes from higher educated labor.

#### • Household payments abroad (Rest of World | Households)

**Definition**: Secondary income transfers from households to the rest of the world.

**Estimation**: The value of household foreign payments comes from the IMF's BOPS. This includes "personal transfers, debit" (BPM6 code BMISOPT). Transfers are disaggregated across household groups in the SAM using information from national household surveys that capture the amount of remittances households sent abroad.

#### • Government consumption (Commodities | Government)

**Definition**: Government recurrent spending on goods and services. Public consumption demand by the government institution is the primary source of demand for services produced by government activities, which consist of public administration, education, and health and social work.

**Estimation**: The total value of government consumption is take from a country's national accounts data. This is cross-checked against recurrent expenditures in the IMF's GFS, which reports government's "compensation of employees" (GFSM code 21), "use of goods and services" (GFSM 22), and "consumption of fixed capital" (GFSM 23). Total consumption is disaggregated across commodities using budget shares derived from the IOT/SUT, and then adjusted to reflect changes in the composition of supply of public administration, education, and health and social work services.

#### • Government transfers to enterprises (Enterprises | Government)

**Definition**: Transfers from the government to enterprises. For example, the government may pay interest or repay the principal on a loan from a domestic bank, or the government may lend money to parastatal companies.

**Estimation**: Transfers paid by the government to financial and non-financial corporations are taken from the IMF's GFS. This is interest payments to nongovernment residents (GFSM code 242), subsidies to public corporations and private enterprises (GFSM 25) and "other expenses" (GFSM 28). The latter includes property expenses like dividend and rental payments.

#### • Government transfers to households (Households | Government)

**Definition**: Payments by the government to households. For example, governments may pay households from a public pension or cash transfer scheme.

**Estimation**: The total value of transfers is taken from the IMF's GFS. This is social benefits (GFSM code 27), which includes social security, social assistance, and other employment-related social benefits, each of which may be paid in cash or in-kind.

#### • Government savings (Savings | Government)

**Definition**: Recurrent fiscal surplus for the government (of deficit if cell entry is negative). Note that this is the difference between revenues and recurrent expenditures, i.e., before public capital investment. Recurrent expenditures include public consumption spending (see Entry 25) and transfers to domestic and foreign institutions (see Entries 24, 25 and 27).

**Estimation**: This is the residual balancing item for the government account, although it cross-checked against the difference between total revenues and total recurrent expenses in the IMF's GFS (GFSM codes 1 and 2). Any deviation from GFS data is due to the Nexus SAM giving preference to statistics from national accounts (for indirect tax collections and government consumption spending, see Entries 3, 6 and 23) and to the IMF's BOP database (for foreign transfers, see Entries 27 and 35).

#### • Government payments abroad (Rest of World| Government)

**Definition**: Transfers from the government to the rest of the world. For example, government may provide foreign aid to other countries, or must pay interest or repay loans to foreign governments and financial enterprises.

**Estimation**: The value of government foreign payments comes from the IMF's BOPS, and is cross-checked against the IMF's GFS. BOPS-based payments include "general government transfers, debit" under secondary income (BPM6 code BMISG). GFS-based payments include interest payments to nonresidents (GFSM code 241), and grants paid to foreign governments and international organizations (GFSM 26).

#### • Tax revenues paid to government (Government | Taxes)

**Definition**: Revenues transferred from individual tax accounts to the government account.

**Estimation**: This is a residual balancing item for the tax accounts in the SAM. The distinction between taxes and the government account allows the SAM to disaggregate indirect taxes on commodities, i.e., sales taxes, export taxes, and import tariffs (see Entry 6).

#### • Gross capital formation (Commodities | Investment)

**Definition**: Combination of gross fixed capital formation (GFCF) and changes in stocks or inventories. GFCF is the spending on commodities involved during the investment in capital stock. For example, investment typically involves the purchase of machinery, vehicles and equipment, as well as payments for constructing new factories and storage facilities. Changes in stocks occur when businesses carry-over stock for sale in subsequent years, or when they sell products in the current year that were produced in previous years. Positive values in the SAM indicate an accumulation of stocks and negative values indicate a depletion of stocks. Finally, note that the Nexus SAMs combine private, public and foreign investment, just as they combine private, public and foreign savings (see Entries 15, 21 and 26).

Estimation: The Nexus SAMs distinguish between GFCF (s-i) and changes in stocks (dstk). SAM entries are determined in two steps. First, the total value of GFCF and stock changes are taken from official national accounts data. Second, these total values are disaggregated across commodities using expenditure shares from the IOT/SUT. In some cases, countries report the composition of GFCF on an annual basis, in which case this information is used in place of the IOT/SUT shares. The same is true for stock changes, although most countries only report detailed stock changes when a new IOT/SUT is produced during the rebasing of national accounts. Although commodity level stock changes in Nexus SAMs typically deviate from national accounts, this is not overly concerning since they are usually an exogenous decision variable in economy-wide models.

#### • Inventory or stock change adjustment (Savings | Investment)

**Definition**: The accumulation of stocks for sale in subsequent years are added to the amount of savings available in the country (and a depletion of stocks reduces savings). For example, if an activity produces a machine this year for sale next year then they are effectively saving the value of the machine (or investing in future sales). This transfer of total stock changes to the savings account was not shown in Table 1, because it nets to zero in SAMs that aggregate gross fixed capital formation (GFCF) and changes in stocks.

**Estimation**: This is a residual balancing item for the change in stocks account (see Entry 29). The total value of stock changes is paid to the savings account. A positive value means a net accumulation of stocks and a negative value means a net depletion.

#### • Exports (Commodities | Rest of World)

**Definition**: Value of goods and services exported abroad.

**Estimation**: The total value of exports is taken from national accounts, and this is then disaggregated into total goods and total services using current account data from the IMF's BOPS (i.e., BPM6 codes BXG for "goods credit" and BXS for "services credit"). BOPS provides detailed information on services exports by commodity and this is used to assign exports to service commodities in the SAM (see Table A5 in the appendix). Goods exports are disaggregated across commodities using 6-digit HS gross export flows from the United Nations Commodity Trade Statistics (COMTRADE) database (UNSD 2015).

#### • Foreign transfers to factors (Factors | Rest of World)

**Definition**: Labor, land and capital incomes received from the rest of the world. For example, workers belonging to domestic households may earn some or all of their labor incomes working in a foreign country and this income may be repatriated. Similarly, domestically-owned companies may repatriate profits earned abroad.

**Estimation**: Factor transfers from the rest of the world are from the IMF's BOPS. Labor receipts are "compensation of employees, credit" (BPM6 code BXIPCE). Capital receipts are "investment income, credit" (BPM6 BXIPI), which includes, amongst others, income on foreign equity and investment funds.

#### • Foreign transfers to enterprises (Enterprises | Rest of World)

**Definition**: Secondary income transfers from the rest of the world to domestic financial and non-financial enterprises.

**Estimation**: The value of enterprise foreign receipts comes from the IMF's BOPS. This includes "other transfers, credit" (BPM6 code BXISOOT).

#### • Foreign transfers to households (Households | Rest of World)

**Definition**: Secondary income transfers from households to the rest of the world. For example, households may receive remittance incomes from family members working abroad.

**Estimation**: The value of household foreign incomes comes from the IMF's BOPS. This includes "personal transfers, credit" (BPM6 code BXISOPT). Transfers are disaggregated across household groups in the SAM using information from national household surveys that capture the amount of remittances households received from abroad.

#### • Foreign transfers to government (Government | Rest of World)

**Definition**: Transfers from the rest of the world to the government. For example, government may receive foreign aid from other countries.

**Estimation**: The value of government foreign receipts comes from the IMF's BOPS, and this is cross-checked against the IMF's GFS. BOPS-based receipts include "general government transfers, credit" under secondary income (BPM6 code BXISG). GFS-based payments include grants received from foreign governments and international organizations (GFSM code 131 and 132).

#### Foreign savings (Savings | Rest of World)

**Definition**: Current account balance equal to total foreign capital or savings inflows.

**Estimation**: This is the residual balancing item for the rest of world account, although it cross-checked against the current account balance reported in the IMF's BOPS (BPM6 code 1). Any deviation from BOPS data – and this is usually small – is due to the Nexus SAM giving preference to total the value of imports and exports reported in national accounts (see Entries 7 and 31).

#### 2. Balancing Nexus Social Accounting Matrices

Nexus social accounting matrices are constructed in three stages using the IFPRI SAM Building Toolkit. The toolkit uses a standardized template in Microsoft-Excel® to construct and export an unbalanced SAM to a compilation and balancing program that is executed in the General Algebraic Modeling System (GAMS).

During the first stage of the SAM Toolkit, a Macro SAM is constructed using the data described in previous sections. The three main data sources for the Macro SAM are national accounts, the IMF's Government Finance Statistics (GFS) database, and the IMF Balance of Payments Statistics (BOPS) database. Unfortunately, in many developing countries, these three data sources are not fully reconciled. For example, the total value of exports and imports in national accounts may not exactly match the values appearing in BOPS. Preference is given to certain data sources. For instance, Nexus SAMs always use national accounts data instead of trade data from BOPS or government consumption spending estimates from GFS. Similarly, preference is given BOPS over GFS when estimating transfers between the government and the rest of the world. Row and column totals in the Macro SAM are reconciled manually through various residual balancing items:

- Marketed supply balances the activity accounts (see Entry 4)
- Transfers to households or enterprises balances the factor accounts (see Entry 8 and 9)
- Transfers to households balances the enterprise account (see Entry 12)
- Household and government savings balance the household and government accounts (see Entries 21 and 26)
- Foreign savings balances the rest of world account (see Entry 36).

During the second stage, income and expenditure shares derived from surveys and other sources are used to disaggregate the Macro SAM entries across detailed activities, commodities, factors and households. Sectoral and product data is used to disaggregate production and trade, and survey data is used to disaggregate factor and household incomes and consumer demand. There are always imbalances between the level of supply and demand for commodities and

between household incomes and expenditures. These imbalances are manually checked for misclassification issues and logical errors in data collection and reporting. However, imbalances invariably remain, and so Nexus SAMs use cross-entropy estimation techniques to reconcile row and column totals at the detailed commodity and household level. For more information on cross-entropy-based reconciliation of SAM accounts, see Robinson et al. (2001).

Finally, in the third stage, Standard Nexus SAM entries are further disaggregated to include sex-disaggregated and regional information. As above, separating activities, factors, and households always introduces new imbalances. These are reconciled using a second round of cross-entropy estimation techniques.

#### 3. Egypt Social Accounting Matrix and Data Sources

The 2015 Egypt SAM follows the Standard Nexus structure, as described in Section 2. Table 9 lists the data sources used to construct the SAM. All major data sources are consistent with those used for Standard Nexus SAMs, as described in Section 3.

Table 9. Summary of Data Sources for the Egypt Social Accounting Matrix

Data needs	Data year	Country data sources	Reference
Macroeconomic structure			
National accounts	2015	National accounts, 2007/08 rebased series	MoP (2017)
Government finance	2015	GFS2014 online database	IMF (2016a)
Balance of payments	2015	BPM6 online database	IMF (2016b)
Input-output table (IOT)			
Aggregate structure	2013	Supply-use table	CAPMAS (2016b)
Agriculture subsectors	2010/11	2010/2011 Social Accounting Matrix for Egypt	CAPMAS (2016a)
Industrial subsectors	2013	Economic Census	CAPMAS (2017a)
Disaggregating activities			
Aggregate sectors	2015	National accounts, 2007/08 rebased series	MoP (2016)
Crops and livestock subsectors	2014	FAOSTAT online database	FAO (2016)
Regional disaggregation of crop production	2014	crops reshaped Stata dataset	CAPMAS
Regional disaggregation of livestock production	2014	Excel files from Economic Affairs Sector	MALR (2015a)
Regional disaggregation of fish production	2014	Excel files from Economic Affairs Sector	MALR (2015b)
Industrial subsectors	2013	Economic Census	CAPMAS (2017a)
Regional disaggregation of industrial production	2013	Economic Census	CAPMAS (2017a)
Disaggregating commodities			
Private consumption	2015	Household Income, Expenditure, and Consumption Survey	CAPMAS (2017b)
Public consumption	2013	Use table	CAPMAS (2016b)
Gross fixed capital formation	2013	Use table	CAPMAS (2016b)
Goods trade	2015	COMTRADE online database	UNCTAD (2016)
Services trade	2015	BPM6 online database	IMF (2016b)
Indirect tax rates	2013	Supply-use table	CAPMAS (2016b)

Data needs	Data year	Country data sources	Reference
	2014	TRAINS Most Favoured Nation rate	es UNCTAD (2015)
Subsidy rates	2013	Supply-use table	CAPMAS (2016b)
	2012/2013- 2014/2015	Ministry of Finance Fiscal Statements	Ministry of Finance
Transaction cost margins	2013	Supply-use table	CAPMAS (2016b)
Disaggregating labour	2015	Household Income, Expenditure, and Consumption Survey	CAPMAS (2017b)
Disaggregating households	2015	Household Income, Expenditure, and Consumption Survey	CAPMAS (2017b)

Activities: Egypt's national accounts were rebased using a 2007/08 base year and provided GDP estimates for 23 sectors, which were disaggregated to the Nexus 86 activities using (i) crop production and price data from FAOSTAT (see Section 3); and (ii) industrial data from the 2013 Economic Census. An updated IOT was estimated using (i) the technical coefficients derived from the 2013 SUT containing 97 activities and 79 commodities, which were aggregated to the Nexus 86 activities using the ISIC Revision 4 concordance (see Table A1 in the appendix); (ii) technical coefficients for agriculture subsectors from the 2010/2011 Social Accounting Matrix for Egypt; and (iii) intermediate consumption from the 2013 Economic Census 2013.

**Commodities**: National accounts report GDP by expenditure group, i.e., private and public consumption, investment demand, and exports and imports. These groups were disaggregated across the Nexus commodities using the following data:

- Six-digit COMTRADE and itemized IMF BOPS data were used to disaggregate international goods and services trade, respectively.
- The 2015 Household Income, Expenditure, and Consumption Survey (HIEC), which is a nationally-representative household survey, was used to disaggregate total private consumption spending across activities and commodities.
- Public consumption spending was disaggregated across public administration, health, and education using GDP information from national accounts, after subtracting other sources of consumption and intermediate demand.
- Initial indirect tax rates were estimated using sales tax collection rates calculated from the 2013 SUT. Import tariffs were extracted from UNCTAD's Trade Analysis Information System (TRAINS) and scaled to match data on total import duties collected from the IMF's GFS database. Subsidy rates were estimated based on subsidy information from the 2013 SUT.

**Labor**: The updated IOT separates sectoral GDP into compensation of employees and gross operating surplus. Labor value-added was disaggregated using sector-level income shares of household members derived from the 2015 HIEC. This survey provides information on wage earnings, as well as farm and non-farm enterprise revenues.

**Households**: Household incomes and expenditures were disaggregated across representative household groups using information from the 2015 HIEC. Households receive factor incomes based on reported earnings of individual household members. The value-added generated by cropland and livestock capital were paid to household groups based on their reported farm

enterprise revenues. Direct tax payments were assumed to be proportional to secondary and tertiary-educated workers' wage and non-farm enterprise earnings. Finally, transfers received from the government and the rest of the world were assigned to households using information from the survey. More specifically, the ratio of transfer earnings to total household consumption was used to estimate initial transfer incomes. These were then scaled uniformly across all households in order to match the total value of transfers appearing in government and balance of payments statistics.

**Data files**: The Microsoft Excel® file (EGY\_N86\_2015.xlsx) accompanying this documentation includes the following worksheets:

- **Notes**: Description of the Egypt Nexus SAM accounts.
- SAM v86N: The 2015 national SAM with the standard 86-sector Nexus structure.
- SAM v70R: The 2015 regional SAM with the standard 70-sector Nexus structure.

The number of activities/commodities used in the SAM description is based on the number of Standard Nexus accounts considered when constructing the SAM (see Table 2). Not all Nexus activities and commodities are present in the Egypt SAM, such as crude oil.

## I- Appendices

	Nexus Activity	International Standard Industrial Classification (ISIC) Revision 4
Code	Description	Code Description
maiz	Maize	0111 Growing of cereals (except rice), leguminous crops and oil seeds
sorg	Sorghum and millet	0111 Growing of cereals (except rice), leguminous crops and oil seeds
rice	Rice	0112 Growing of rice
whea	Wheat and barley	0111 Growing of cereals (except rice), leguminous crops and oil seeds
ocer	Other cereals	0111 Growing of cereals (except rice), leguminous crops and oil seeds
puls	Pulses	0111 Growing of cereals (except rice), leguminous crops and oil seeds
gnut	Groundnuts	0111 Growing of cereals (except rice), leguminous crops and oil seeds
oils	Other oilseeds	0111 Growing of cereals (except rice), leguminous crops and oil seeds
cass	Cassava	0113 Growing of vegetables and melons, roots and tubers
ipot	Irish potatoes	0113 Growing of vegetables and melons, roots and tubers
spot	Sweet potatoes	0113 Growing of vegetables and melons, roots and tubers
root	Other roots	0113 Growing of vegetables and melons, roots and tubers
eaf	Leafy vegetables	0113 Growing of vegetables and melons, roots and tubers
vege	Vegetables	0113 Growing of vegetables and melons, roots and tubers
sugr	Sugar cane	0114 Growing of sugar cane
oba	Tobacco	0115 Growing of tobacco
cott	Cotton and fibers	0116 Growing of fiber crops
nuts	Nuts	0125 Growing of other tree and bush fruits and nuts
bana	Banana and plantains	0125 Growing of other tree and bush fruits and nuts
rui	Fruits	0121 Growing of grapes
		0122 Growing of tropical and subtropical fruits
		0123 Growing of citrus fruits
		0124 Growing of pome fruits and stone fruits
		0125 Growing of other tree and bush fruits and nuts
		0126 Growing of oleaginous fruits
coco	Cocoa	0127 Growing of beverage crops
		25
coff	Coffee	0127 Growing of beverage crops
teal	Tea	0127 Growing of beverage crops
flwr	Cut flowers	0130 Plant propagation
rubb	Bubbor	0110 Crowing of other non perennial grops

coff	Coffee	0127	Growing of beverage crops
teal	Tea	0127	Growing of beverage crops
flwr	Cut flowers	0130	Plant propagation
rubb	Rubber	0119	Growing of other non-perennial crops
ocrp	Other crops	0119	Growing of other non-perennial crops
		0128	Growing of spices, aromatic, drug and pharmaceutical crops
		0129	Growing of spices, aromatic, drug and pharmaceutical crops
		0161	Support activities for crop production
		0163	Post-harvest crop activities
		0164	Seed processing for propagation
catt	Cattle	0141	Raising of cattle and buffaloes
milk	Raw milk	0141	Raising of cattle and buffaloes
poul	Poultry	0146	Raising of poultry

	Nexus Activity		ernational Standard Industrial Classification (ISIC) Revision 4
Code		Code	•
eggs	Eggs		Raising of poultry
smlr	Small ruminants		Raising of sheep and goats
oliv	Other livestock		Raising of horses and other equines
			Raising of camels and camelids
			Raising of swine/pigs
			Raising of other animals
			Support activities for animal production
			Hunting, trapping and related service activities
ore	Forestry		Forestry and logging
aqua	Aquaculture		Aquaculture
ish	Fishing		Fishing
coal	Coal and lignite		Mining of coal and lignite
coil	Crude oil		Extraction of crude petroleum
ngas	Natural gas		Extraction of natural gas
omin	Other mining		Mining of metal ores
			Other mining and quarrying
			Mining support service activities
meat	Meat processing		Processing and preserving of meat
sea	Fish and seafood processing		Processing and preserving of fish, crustaceans and mollusks
veg	Fruit & vegetable processing	103x	Processing and preserving of fruit and vegetables
oil	Fats and oils	104x	Manufacture of vegetable and animal oils and fats
dair	Dairy	105x	Manufacture of dairy products
mmll	Maize milling	1061	Manufacture of grain mill products
smll	Sorghun and millet milling	1061	Manufacture of grain mill products
mll	Rice milling	1061	Manufacture of grain mill products
wmll	Wheat and barley milling	1061	Manufacture of grain mill products
gmll	Other grain milling	106x	Manufacture of grain mill products, starches and starch products
sref	Sugar refining	1072	Manufacture of sugar
ocof	Coffee processing	1079	Manufacture of coffee products
otea	Tea processing	1079	Manufacture of tea products
food	Other foods	107x	Manufacture of other food products (excl. sugar: 1072 above, coffee and tea products)
eed	Animal feed	108x	Manufacture of prepared animal feeds
oeve	Beverages	11xx	Manufacture of beverages
otob	Tobacco processing	12xx	Manufacture of tobacco products
/arn	Yarn	1311	Preparation and spinning of textile fibers
ext	Textiles	13xx	Manufacture of textiles
clth	Clothing	14xx	Manufacture of wearing apparel
eat	Leather and footwear	15xx	Manufacture of leather and related products
wood	Wood products	16xx	Manufacture of wood and of products of wood and cork, except furniture
oapr	Paper and publishing	17xx	Manufacture of paper and paper products
		18xx	Printing and reproduction of recorded media
oetr	Petroleum	19xx	Manufacture of coke and refined petroleum products
ert	Fertilizer and pesticides	2012	Manufacture of fertilizers and nitrogen compounds
	· ·		Manufacture of pesticides and other agrochemical products

Code	Nexus Activity Description	Inte Code	ernational Standard Industrial Classification (ISIC) Revision 4  Description
chem	Other chemicals	20xx	Manufacture of chemicals and chemical products (excl. 2012 and 2021 above)
		21xx	Manufacture of basic pharmaceutical products and pharmaceutical preparations
		22xx	Manufacture of rubber and plastics products
nmet	Non-metal minerals	23xx	Manufacture of other non-metallic mineral products
metl	Metals and metal products	24xx	Manufacture of basic metals
		25xx	Manufacture of fabricated metal products, except machinery and equipment
equi	Electrical equipment		Manufacture of computer, electronic and optical products
			Manufacture of electrical equipment
	, , , ,		Manufacture of machinery and equipment n.e.c.
vehi	Vehicles & transport equipment		Manufacture of motor vehicles, trailers and semi-trailers
			Manufacture of other transport equipment
oman	Other manufacturing		Manufacture of furniture
			Other manufacturing
			Repair and installation of machinery and equipment
elec	Electricity, gas and steam		Electricity, gas, steam and air conditioning supply
watr	Water supply and sewage		Water collection, treatment and supply
			Sewerage
			Waste collection, treatment and disposal activities; materials recovery
cons	Construction		Construction of buildings
		42xx	Civil engineering
		43xx	Specialized construction activities
trad	Wholesale and retail trade		Wholesale and retail trade and repair of motor vehicles and motorcycles
		46xx	Wholesale trade, except of motor vehicles and motorcycles
		47xx	Retail trade, except of motor vehicles and motorcycles
tran	Transportation and storage	49xx	Land transport and transport via pipelines
		50xx	Water transport
		51xx	Air transport
		52xx	Warehousing and support activities for transportation
		53xx	Postal and courier activities
hotl	Accommodation & food services	55xx	Accommodation
rest	Restaurants and food services	56xx	Food and beverage service activities
comm	Information and communication	58xx	Publishing activities
			Motion picture, video, TV program production, sound and music publishing
			Programming and broadcasting activities
		61xx	Telecommunications
		62xx	Computer programming, consultancy and related activities
		63xx	Information service activities
fsrv	Finance & insurance	64xx	Financial service activities, except insurance and pension funding
		65xx	Insurance, reinsurance and pension funding, except compulsory social security

	<b>Nexus Activity</b>	International Standard Industrial Classification (ISIC) Revision 4			
Code	Description	Code Description			
		66xx Activities auxiliary to financial service and insurance activities			
real	Real estate activities	68xx Real estate activities			
bsrv	Business services	69xx Legal and accounting activities			
		70xx Activities of head offices; management consultancy activities			
		71xx Architectural and engineering activities; technical testing and analysis			
		72xx Scientific research and development			
		73xx Advertising and market research			
		74xx Other professional, scientific and technical activities			
		75xx Veterinary activities			
		77xx Rental and leasing activities			
		78xx Employment activities			
		79xx Travel agency, tour operator, reservation service and related activities			
		80xx Security and investigation activities			
		81xx Services to buildings and landscape activities			
		82xx Office administrative, office support and other business support activities			
padm	Public administration	84xx Public administration and defense; compulsory social security			
educ	Education	85xx Education			
heal	Health and social work	86xx Human health activities			
		87xx Residential care activities			
		88xx Social work activities without accommodation			
osrv	Other services	90xx Creative, arts and entertainment activities			
		91xx Libraries, archives, museums and other cultural activities			
		92xx Gambling and betting activities			
		93xx Sports activities and amusement and recreation activities			
		94xx Activities of membership organizations			
		95xx Repair of computers and personal and household goods			
		96xx Other personal service activities			
		97xx Activities of households as employers of domestic personnel			
		98xx Undifferentiated goods/service activities of private households for own use			
		99xx Activities of extraterritorial organizations and bodies			

Note: n.e.c. = "not elsewhere considered".

Table A2. Detailed Classification of Nexus 86 Agricultural Activity Accounts

	Description (FACOTAT and and lines to be used as done in a country
Code	Description (FAOSTAT crop and livestock product codes in parentheses)
maiz	Maize (56)
sorg	Millet (79); Sorghum (83)
rice	Paddy rice (27)
whea	Wheat (15); Barley (44)
ocer	Rye (71); Oats (75); Buckwheat (89); Quinoa (92); Fonio (94); Triticale (97); Canary seed (101); Mixed grain (103); Cereals not elsewhere specified (108)
puls	Dry beans (176); Dry broad beans and horse beans (181); Dry peas (187); Chick peas (191); Dry cow peas (195); Pigeon peas (197); Lentils (201); Bambara beans (203); Vetches (205); Lupins (210); Pulses not elsewhere specified (211)
gnut	Groundnuts with shell (242)
oils	Soybeans (236); Coconuts (249); Palm oil fruit (254); Palm kernels (256); Palm oil (257); Olives (260); Karite nuts (sheanuts) (263); Castor oil seed (265); Sunflower seed (267); Rapeseed (270); Tung nuts (275); Jojoba seed (277); Safflower seed (280); Sesame seed (289); Mustard seed (292); Poppy seed (296); Melonseed (299); Tallowtree seed (305); Vegetable tallow (306); Stillingia oil (307); Cottonseed (329); Linseed (333); Hempseed (336); Oilseeds not elsewhere specified (339)
cass	Cassava (125)
ipot	Potatoes (116)
spot	Sweet potatoes (122)
root	Yautia (cocoyam) (135); Taro (cocoyam) (136); Yams (137); Roots and tubers not elsewhere specified (149)
leaf	Cabbages and other brassicas (358); Artichokes (366); Asparagus (367); Lettuce and chicory (372); Tomatoes (388); Cauliflowers and broccoli (393); Pumpkins, squash and gourds (394); Cucumbers and gherkins (397); Eggplants (aubergines) (399)
vege	Chilies and peppers, green (401); Green onions and shallots (402); Dry onions (403); Garlic (406); Leeks and other alliaceous vegetables (407); Green beans (414); Green peas (417); Leguminous vegetables not elsewhere specified (420); String beans (423); Carrots and turnips (426); Okra (430); Green maize (446); Mushrooms and truffles (449); Chicory roots (459); Carobs (461); Fresh vegetables not elsewhere specified (463)
sugr	Sugar cane (156); Sugar beet (157); Sugar crops not elsewhere specified (161)
toba	Unmanufactured tobacco (826)
cott	Kapok fruit (310); Seed cotton (328); Flax fiber and tow (773); Hemp tow waste (777); Jute (780); Bastfibers, other (782); Ramie (788); Sisal (789); Agave fibers not elsewhere specified (800); Manila fiber (abaca) (809); Fiber crops not elsewhere specified (821)
nuts	Brazil nuts with shell (216); Cashew nuts with shell (217); Chestnut (220); Almonds with shell (221); Walnuts with shell (222); Pistachios (223); Kola nuts (224); Hazelnuts with shell (225); Areca nuts (226); Nuts not elsewhere specified (234)
bana	Bananas (486); Plantains (489)
frui	Oranges (490); Tangerines, mandarins, clementines and satsumas (495); Lemons and limes (497); Grapefruit (including pomelos) (507); Citrus fruit not elsewhere specified (512); Apples (515); Pears (521); Quinces (523); Apricots (526); Sour cherries (530); Cherries (531); Peaches and nectarines (534); Plums and sloes (536); Stone fruit not elsewhere specified (541); Pome fruit not elsewhere specified (542); Strawberries (544); Raspberries (547); Gooseberries (549); Currants (550); Blueberries (552); Cranberries (554); Berries not elsewhere specified (558); Grapes (560); Watermelons (567); Other melons (including cantaloupes) (568); Figs (569); Mangoes, mangosteens, and guavas (571); Avocados (572); Pineapples (574); Dates (577); Persimmons (587); Cashew apple (591); Kiwi fruit (592); Papayas (600); Fresh tropical fruit not elsewhere specified (603); Fresh fruit not elsewhere specified (619)
	· apayae (ess); · · · · · · · · · · · · · · · · · · ·
сосо	Cocoa beans (661)
coco	

Code	Description (FAOSTAT crop and livestock product codes in parentheses)
flwr	Not reported in FAOSTAT
rubb	Natural rubber (836); Natural gums (839)
ocrp	Hops (677); Pepper (piper spp.) (687); Dry chilies and peppers (689); Vanilla (692); Cinnamon (canella) (693); Cloves (698); Nutmeg, mace and cardamoms (702); Anise, badian, fennel and coriander (711); Ginger (720); Spices not elsewhere specified (723); Peppermint (748); Dried pyrethrum (754)
catt	Cattle meat (867); Indigenous cattle meat (944); Live weight cattle meat (945)
milk	Whole fresh cow milk (882); Whole fresh buffalo milk (951); Whole fresh sheep milk (982); Whole fresh goat milk (1020); Whole fresh camel milk (1130)
poul	Chicken meat (1058); Duck meat (1069); Indigenous duck meat (1070); Live weight duck meat (1071); Goose and guinea fowl meat (1073); Indigenous goose meat (1077); Live weight goose meat (1078); Turkey meat (1080); Indigenous bird meat not elsewhere specified (1084); Other live weight poultry meat (1085); Indigenous turkey meat (1087); Live weight turkey meat (1088); Bird meat not elsewhere specified (1089); Indigenous chicken meat (1094); Live weight chicken meat (1095)
eggs	Hen eggs in shell (1062); Other bird eggs in shell (1091)
smlr	Sheep meat (977); Greasy wool (987); Indigenous sheep meat (1012); Live weight sheep meat (1013); Goat meat (1017); Indigenous goat meat (1032); Live weight goat meat (1033)
oliv	Buffalo meat (947); Indigenous buffalo meat (972); Live weight buffalo meat (973); Pig meat (1035); Indigenous pig meat (1055); Live weight pig meat (1056); Horse meat (1097); Ass meat (1108); Mule meat (1111); Indigenous horse meat (1120); Live weight horse meat (1121); Indigenous ass meat (1122); Live weight ass meat (1123); Indigenous mule meat (1124); Live weight mule meat (1125); Camel meat (1127); Indigenous camel meat (1137); Live weight camel meat (1138); Rabbit meat (1141); Indigenous rabbit meat (1144); Live weight rabbit meat (1145); Other rodent meat (1151); Indigenous rodent meat (1154); Live weight rodent meat (1155); Other camelid meat (1158); Indigenous other camelid meat (1161); Live weight other camelids meat (1162); Game meat (1163); Meat not elsewhere specified (1166); Snails (1176); Natural honey (1182); Beeswax (1183); Silk-worm cocoons (1185)

Table A3. Concordance between Nexus 70 and Nexus 86 Activity Accounts

Nexus description	N70	N86	Nexus description	N70	N86
Maize	maiz	maiz	Fats and oils	foil	foil
Sorghum and millet	sorg	sorg	Grain milling	gmll	mmll
Rice	rice	rice	Grain milling	gmll	smll
Other cereals	whea	whea	Grain milling	gmll	rmll
Other cereals	ocer	ocer	Grain milling	gmll	wmll
Pulses	puls	puls	Grain milling	gmll	gmll
Groundnuts	gnut	gnut	Sugar refining	sref	sref
Other oilseeds	oils	oils	Other foods and feed	food	pcof
Cassava	cass	cass	Other foods and feed	food	ptea
Other roots	root	ipot	Other foods and feed	food	food
Other roots	root	spot	Other foods and feed	feed	feed
Other roots	root	root	Beverages	beve	beve
Vegetables	vege	leaf	Tobacco processing	ptob	ptob
Vegetables	vege	vege	Textiles	text	yarn
Sugarcane	sugr	sugr	Textiles	text	text
Tobacco	toba	toba	Clothing	clth	clth
Cotton and fibres	cott	cott	Leather and footwear	leat	leat
Fruits and nuts	frui	nuts	Wood and paper products	wood	wood
Fruits and nuts	frui	bana	Wood and paper products	papr	papr
Fruits and nuts	frui	frui	Petroleum products	petr	petr
Coffee and tea	teal	teal	Other chemicals	fert	fert
Coffee and tea	coff	coff	Other chemicals	chem	chem
Cocoa	coco	coco	Non-metal minerals	nmet	nmet
Other crops	flwr	flwr	Metals and metal products	metl	metl
Other crops	ocrp	rubb	Machinery and equipment	mach	mach
Other crops	ocrp	ocrp	Machinery and equipment	equi	equi
Cattle and milk	catt	catt	Machinery and equipment	vehi	vehi
Cattle and milk	milk	milk	Other manufacturing	oman	oman
Poultry and eggs	poul	poul	Electricity, gas and steam	elec	elec
Poultry and eggs	poul	eggs	Water supply and sewage	watr	watr
Other livestock	smlr	smlr	Construction	cons	cons
Other livestock	oliv	oliv	Wholesale and retail trade	trad	trad
Forestry	fore	fore	Transportation and storage	tran	tran
Fisheries	fish	aqua	Accommodation and food services	hotl	hotl
Fisheries	fish	fish	Accommodation and food services	hotl	rest
Coal and lignite	coal	coal	Information and communication	comm	comm
Crude oil	coil	coil	Finance and insurance	fsrv	fsrv
Natural gas	ngas	ngas	Real estate activities	real	real
Other mining	omin	omin	Business services	bsrv	bsrv
Meat, fish and dairy	meat	meat	Public administration	padm	padm
Meat, fish and dairy	fsea	fsea	Education	educ	educ
Meat, fish and dairy	dair	dair	Health and social work	heal	heal
Fruit & vegetable processing	fveg	fveg	Other services	osrv	osrv

**Table A4. Detailed Classification of the Government Account** 

	ment Financial Statistics Manual (IMF GFSM 2014)	En	us SAM tries*
Code	Description	Row	Columr
1	Revenue		
11	Taxes		
111	Taxes on income, profits, and capital gains		
1111	Payable by individuals	dtax	hhd
1112	Payable by corporations and other enterprises	dtax	ent
1113	Other taxes on income, profits, and capital gains	dtax	ent
112	Taxes on payroll and workforce	ftax	flab
113	Taxes on property	ftax	fcap
114	Taxes on goods and services	stax	C
115	Taxes on international trade and transactions		
1151	Customs and other import duties	mtax	C
1152	Taxes on exports	etax	C
1153	Profits of export or import monopolies	mtax	C
1154	Exchange profits	mtax	C
1155	Exchange taxes	mtax	C
1156	Other taxes on international trade and transactions	mtax	C
116	Other taxes	dtax	ent
12	Social contributions		
121	Social security contributions		
1211	Employee contributions	gov	hhd
1212	Employer contributions	gov	ent
1213	Self-employed or unemployed contributions	gov	hhd
1214	Unallocable contributions	gov	hhd
122	Other social contributions		
1221	Employee contributions	gov	hhd
1222	Employer contributions	gov	ent
1223	Imputed contributions	gov	hhd
13	Grants	gov	row
14	Other revenue		
141	Property income	gov	ment
142	Sales of goods and services	gov	hhd
143	Fines, penalties, and forfeits	gov	hhd
144	Transfers not elsewhere classified	gov	hhd
145	Premiums, fees, and nonlife insurance claims	gov	ment
2	Expense		
21	Compensation of employees	c	gov
22	Use of goods and services	C	gov
23	Consumption of fixed capital	C	gov
24	Interest		
241	To nonresidents	row	gov
242	To residents other than general government	ent	gov
243	To other general government units	ent	gov
25	Subsidies	ent	gov
26	Grants	row	gov
27	Social benefits	hhd	gov

28 Other expense	ent	gov	

<sup>\*</sup> Table 5 describes the Nexus SAM account codes.

**Table A5. Detailed Classification of the Rest of World Account** 

	Balance of Payments (IMF BOP6)	Nexus SAM Entries		
Code	Description	Row	Column	
BCA	Current account			
BGS	Goods and services			
BG	Goods			
BXG	Credit	C	row	
BMG	Debit	row	c	
BS	Services			
BXS	Credit	C	row	
BXSR	Maintenance and repair services n.i.e.	ctrad	row	
BXSTR	Transport	ctran	row	
BXSTV	Travel	chotl	row	
BXSOCN	Construction services	ccons	row	
BXSOIN	Insurance and pension services	cfsrv	row	
BXSOFI	Financial services	cfsrv	row	
BXSORL	Charges for the use of intellectual property n.i.e.	cbsrv	row	
BXSOTCM	Telecommunication, computer, and information services	cbsrv	row	
BXSOOB	Other business services	cbsrv	row	
BXSOPCR	Personal, cultural, and recreational services	cosrv	row	
BXSOGGS	Government goods and services n.i.e.	cpadm	row	
BMS	Debit	row	С	
BMSR	Maintenance and repair services n.i.e.	row	ctrad	
BMSTR	Transport	row	ctran	
BMSTV	Travel	row	chotl	
BMSOCN	Construction services	row	ccons	
BMSOIN	Insurance and pension services	row	cfsrv	
BMSOFI	Financial services	row	cfsrv	
BMSORL	Charges for the use of intellectual property n.i.e.	row	cbsrv	
BMSOTCM	Telecommunication, computer, and information services	row	cbsrv	
BMSOOB	Other business services	row	cbsrv	
BMSOPCR	Personal, cultural, and recreational services	row	cosrv	
BMSOGGS	Government goods and services n.i.e.	row	cpadm	
BIP	Primary income	1011	ораатт	
BXIP	Credit			
BXIPCE	Compensation of employees	flab-	row	
BXIPI	Investment income	fcap	row	
BXIPO	Other primary income		row	
BMIP	Debit	fcap	TOW	
BMIPCE	Compensation of employees	row	flab	
BMIPI	Investment income	row	fcap	
BMIPO		row	•	
	Other primary income	row	fcap	
BIS	Secondary income			
BXIS	Credit	<b>~~</b> .	*****	
BXISG	General government	gov	row	
BXISO	Financial and nonfinancial corporations, households, and NPISHs	h h a d		
BXISOPT	Personal transfers	hhd	row	

BXISOOT	Other current transfers	ent	row
BMIS	Debit		
BMISG	General government	row	gov
BMISO	Financial and nonfinancial corporations, households, and NPISHs		
BMISOPT	Personal transfers	row	hhd
BMISOOT	Other current transfers	row	ent

<sup>\*</sup> Table 5 describes the Nexus SAM account codes; Table 1 describes the activities and commodities. Note: n.i.e. = "not included elsewhere"; NPISH = Non-profit institutions serving households