

Kolokium Statistik

Tarikh : 4 dan 5 Oktober 2018 (Khamis dan Jumaat)

Masa : 2.30 petang - 5.00 petang (Khamis)

8.00 pagi - 12.30 tengah hari (Jumaat)

Tempat : **Dewan Sigma**

Institut Latihan Statistik Malaysia,

Sungkai, Perak Darul Ridzuan.

Presentation by:

Kon Mee Hwa Principal Assistant Director National Accounts Statistics Division Department of Statistics, Malaysia



3rd ASIA-PACIFIC ECONOMIC STATISTICS WEEK

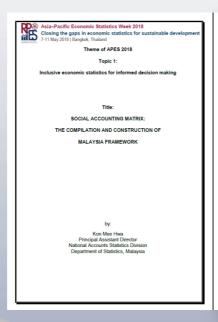


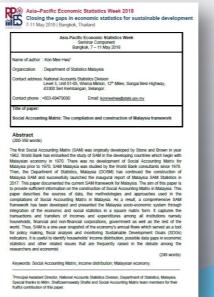
Closing the Gaps in Economic Statistics for Sustainable Development 7-11 May 2018 | Bangkok, Thailand

Topic 1: Inclusive economic statistics for informed decision making

Social Accounting Matrix:

The compilation and construction of Malaysia framework







Why SAM is needed?

Input-Output Analysis LEONTIEF 1930 1900 MARSHALL Modern economic theories MARX RICARDO 1800 SMITH 1700 OUESNAY

Input-Output Model

Extension of IO

Sosial Accounting Matrix (SAM)

Social accounting and economic models

Stone, Richard

Sir Richard Stone

SAM is a powerful tool to show:

- ✓ Links between the supply and use tables (SUT) & institutional accounts.
- Entire circular flow of income at the macro level.
- Patterns of income received & expenditures incurred.
- ✓ Economic structure.

Advantages of SAM over IO:

- ✓ Provides additional information on the composition of households income and expenditure
- Households statistics can be analysed in a more consistent way.
- ✓ To measure the effectiveness of policy implementation that affecting the economy

Source: European Systems of Accounts (ESA) 2010

multi-dimensional structure of economic analysis:

Input-Output (IO) Tables demonstrate

- ✓ Production & Demand
- ✓ Investment & Capital
- √ Imports & Exports

IO has been commonly used in:

- ✓ national economy planning (Tia et al, 2006)
- ✓ regional analysis (Pietroforte et al, 2000)
- √ trade issues (Machado et al, 2001)

Limitation of Input-Output model:

IO does not show:

- **X** Interrelationship between value-added & final expenditures
- **X** Linkages among Industrial output, household income distribution and consumption



Theory

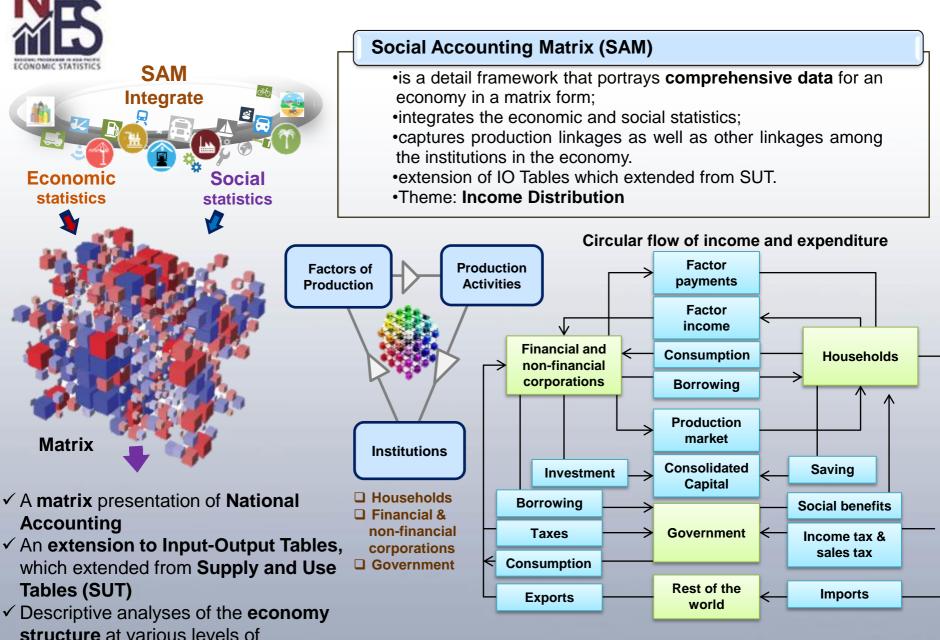
of economic

interdependence

PETTY

P What is SAM?

aggregation





The usefulness of SAM

as an input to the parameters and coefficients of **Computable General Equilibrium (CGE) models**

> as a one-year snapshot of the economy's annual flows







Important tool for policy analysis









Inter-sector link analysis



Social **Accounting Matrix**



Integration of social-economic statistics and building indicators for policy making

Exogenous & endogenous accounts structure analysis

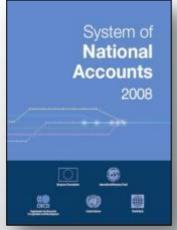








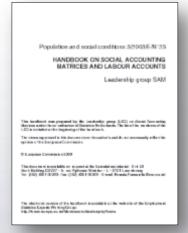
Manual and methodology



System of National Accounts (SNA) 2008



European System of Accounts 2010



Handbook on Social Accounting Matrices and Labour Accounts 2003 by European commission

Flow of income and expenditure in matrix form Use of Generation of Allocation of Secondary Production Capital disposable income primary income distribution of account account account income account account Income account Other changes in the Revaluation **Financial** Balance volume of assets account account Sheet account



Data Sources

Balance of Payments (BOP)







Distribution & Use of Income Accounts and Capital Account (DUIACA)









Household Expenditure Survey (HES)



Salary & Wages
Survey







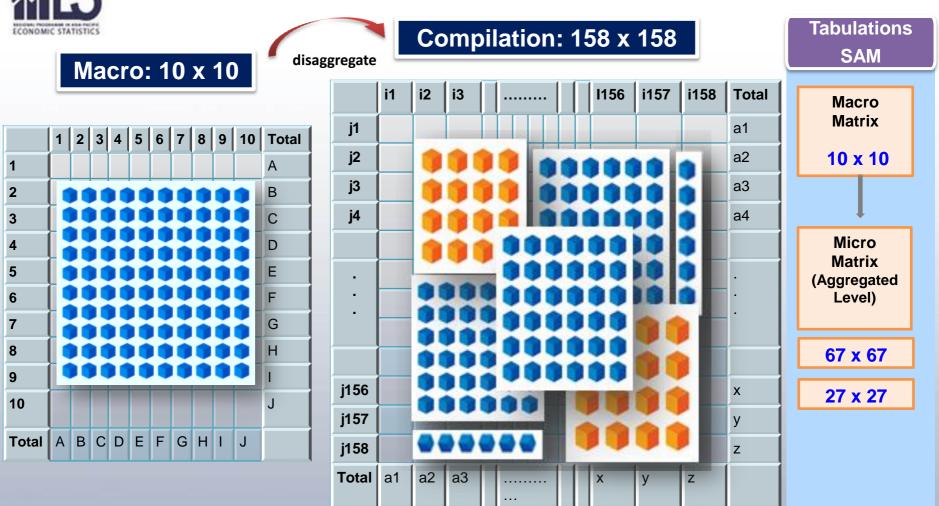
Inland Revenue Board, Dept. of Social Welfare, Listed Companies' annual report, etc.



Household Income Survey (HIS)



Concept & Definition: Simulation on the construction of SAM



Institutions

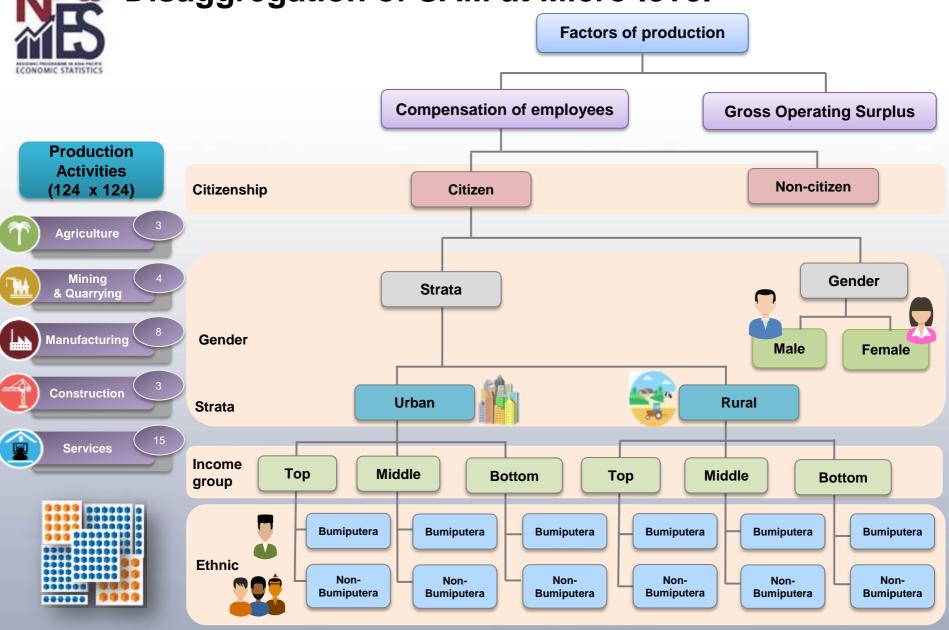
- an economic entity that is capable, in its own right, of owning assets, incurring liabilities and engaging in economic activities and in transactions with other entities
- households, financial & non-financial corporations, government and rest of the world.



SAM's Framework: Macro Matrix 10 x 10

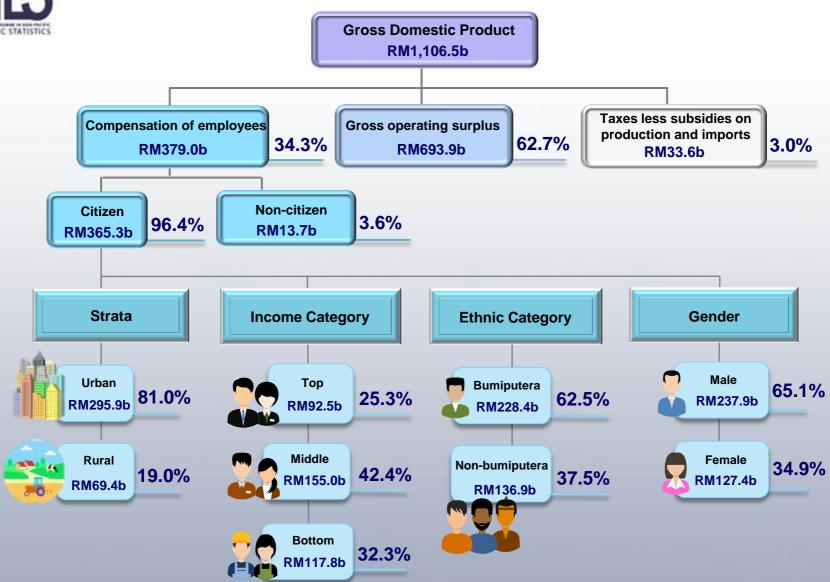
SAM			1	2	3	4	5	6	7	8	9	10	
			Factors of production	Production activities	Households	Institutions	Government	Consolidated capital	Financial		Rest of the world	Total	Total
	at Macro Level 10 x 10					Financial & non-financial corporations				Goods and services	Income and transfer	Capital	Income
1	Facto	ors of production		Value added [1,2]							Factor income received from abroad [1,9]		Total factor incomes
2	Prod	duction activities		Raw materials of domestic commodities [2,2]	Consumption on domestic commodities [2,3]		Final consumption [2,5]	Gross capital formation for domestic commodities [2,6]		Exports [2,8]			Gross output
3	ns	Households	Compensation of employees & unincorporated business profits [3,1]		Current transfers [3,3]	Distributed profits	Social benefits and periodical payments [3,5]		Households borrowing [3,7]		Social benefits received from abroad		Total households incomes
4	Institutions	Financial & non-financial corporations	Gross operating surplus [4,1]			Current transfers [4,4]			Corporate borrowing [4,7]		Non-factor income received from abroad [4,9]		Total financial & non-financial corporations incomes
5		Government		Commodity taxes [5,2]	Income tax and sales tax [5,3]	Corporate tax [5,4]		Taxes on capital goods [5,6]	Government borrowing [5,7]	Exports duty [5,8]	Non-factor income received from abroad [5,9]		Total government revenues
6	Consolidated capital				Households saving [6,3]	Corporate saving [6,4]	Government saving [6,5]						Total saving
7	Financial					Lending [7,4]							Total lending
8	1	Goods and services		Imports of raw materials [8,2]	Consumption on imported commodities [8,3]		Consumption on imported commodities [8,5]	Imports of capital goods [8,6]				Balance of goods and services [8,10]	Total imports
9	Rest of the world	Income and transfer	Factor income paid to abroad [9,1]		Non-factor income paid to abroad [9,3]	Non-factor income paid to abroad [9,4]	Non-factor income paid to abroad [9,5]						Total income and transfer paid to abroad
10		Capital						Balance of capital and financial account [10,6]			Balance of income and transfer [10,9]		Total capital paid to abroad
	Ex	Total spenditure	Total factor payments	Gross input	Total households expenditures	Total financial & non-financial corporations expenditures	Total government expenditures	Total investments	Total borrowing	Total exports	Total Income and transfer received from abroad	Total capital received from abroad	

Disaggregation of SAM at Micro level



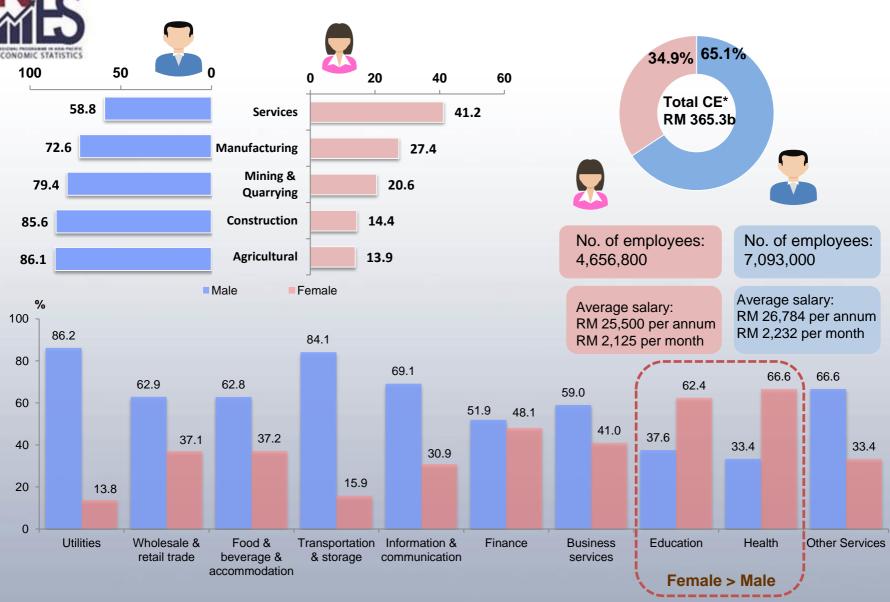


SAM 2014 Data Analysis: Income Distribution



RPS

Compensation of employees by Gender



^{*} Exclude non-citizen and unincorporated business profit



Households: Income & Expenditure (Value and percentage share)

2014

RM638.8b

Income



72.3% RM461.6b

Compensation of employees & unincorporated business profits

14.5% RM92.6b

Distributed profits

8.4% RM54.1b Social benefits and periodical payments

4.3% RM27.5b

Households borrowing

0.5% RM3.0b

Current transfers

0.0% RM0.4m

Social benefits received from abroad

Expenditure



83.3% RM532.2b Consumption on domestics commodities

6.2% RM39.5b Consumption on imported commodities

5.5% RM34.8b Income tax and sales tax

3.6% RM23.3b

Non-factor income paid to abroad

0.9% RM6.0b

Households saving

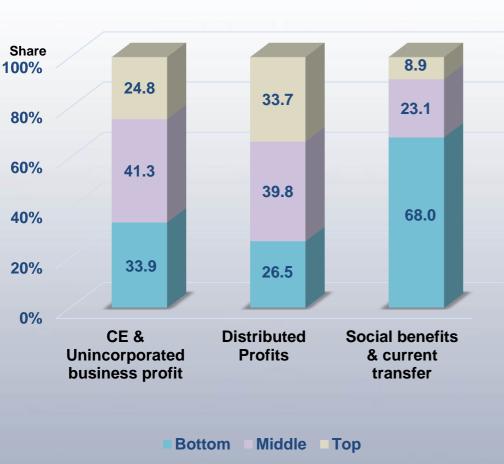
0.5% RM3.0b

Current transfers

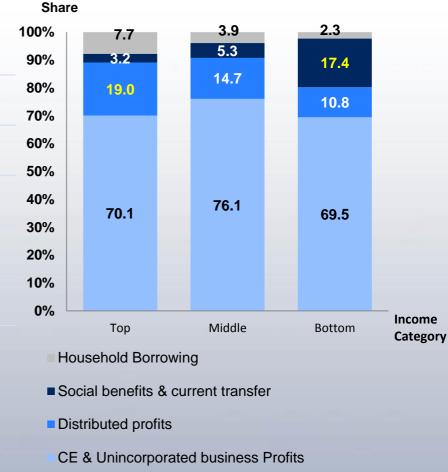


Households: Sources of Income





by Income Category



Total Households Income 2014

RM638.8b



News Article: The launched of SAM





Read your favouri mobile devices

SHARS F V Q+1 W

Education

Malaysia's Social Accounting Matrix launched

Pasted on 20 November 2017 - 09:08pm

sunbiz@thesundaily.com



It said in a statement that SAM is a detailed framework that portrays comprehensive data for a particular year and it integrates the economic and social statistics as well as linkages among the institutions in Malaysia, namely households, financial and non-financial corporations, government and the rest of the world.

The balanced structure of SAM provides important input for the distribution of income and expenditure in fiscal analysis.

At macro level, SAM gives a snapshot on the Malaysia economy's flows in a year, while at micro level, it focuses on the income distributions for households, particularly compensation of employees by strata, income category, ethnic category and gender.

The chief statistician of Malaysia. Datuk Seri Dr Mohd Uzir Mahidin, noted SAM is one of the statistical product that is commonly used by the policy maker and researcher to measure the effectiveness factors of policy implementation that is affecting the economy of the country, including the flow of income sources and spending patterns for institutions.



"For the nation to achieve its vision, statistics for planning is very important"

> YBhg. Dato' Sri Dr. Mohd Uzir Bin Mahidin Chief Statistician Malaysia -The Borneo Post, 31st Oct. 2017-





Welcoming 62nd ISI WORLD STATISTICS CONGRESS 2019



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Thank You

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