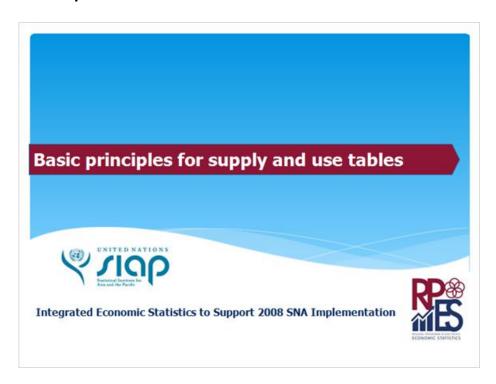
Module7 Basic principles for supply and use tables

1. Supply and Use Tables

1.1 Regional Course on Integrated Economic Statistics to Support 2008 SNA Implementation

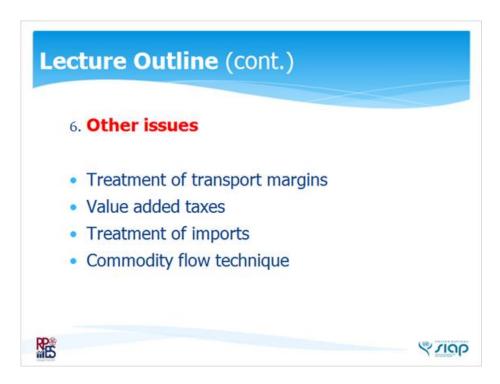


Notes:

1.2 Lecture Outline

1. Introduction 2. Simplified supply and use tables 3. Valuation of transactions 4. Use tables at basic prices 5. Three measures of GDP

1.3 Lecture Outline (cont.)



1.4 Introduction

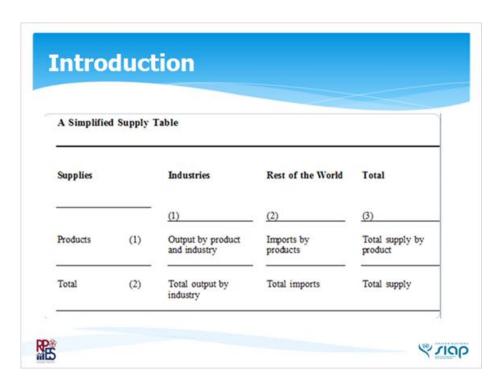
Introduction

- * SUT can be used as a compilation tool because the overall framework facilitates:
 - data checking/reconciliation.
 - gap filling.
- * A number of countries treat SUT as central to their compilation process, not just as an irregular add-on needed to derive input-output tables.

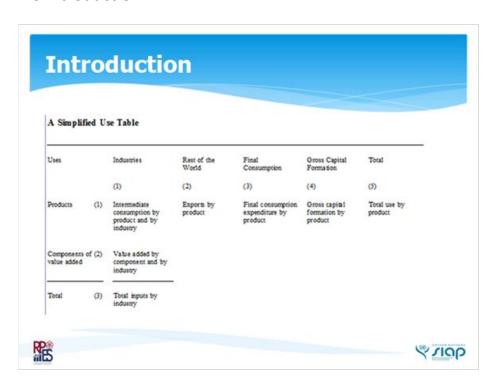


SIOD

1.5 Introduction



1.6 Introduction



1.7 Introduction



1.8 Introduction

Introduction

Two identities hold:

- * The identity by industry
 - Output by industry = input by industry
- The identity by product
 - * Total supply by product = total use by product



SIOD

1.9 Three Measures of GDP

Three Measures of GDP

- * The Goods and Services Account shows:
 - GDP(P) = industry value added plus net taxes on products (VAT, import duties)
 - * GDP(E) = sum of expenditure items
- * Third measure, GDP(I), comprises the components of value added in the income accounts = compensation of employees + operating surplus + net taxes on production



SIOD

1.10 Valuation of Transactions

Valuation of Transactions

- Basic concepts and interrelationships
 - Basic prices
 - Producers' prices
 - Purchasers' prices



SIOD

1.11 Valuation of Transactions

Valuation of Transactions

Basic price is the value of a product unit receivable by the producer, including subsidies on the product, but excluding the taxes paid on the product to be transferred to the government

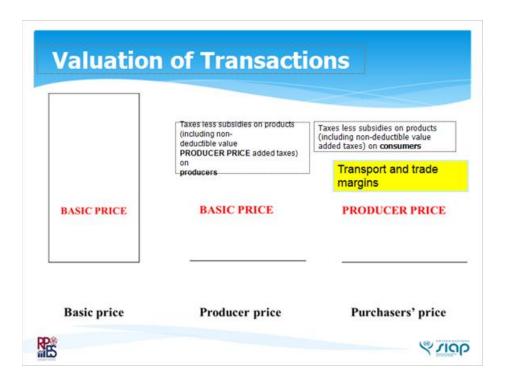
Producer price is the price the producer charges at the time when it leaves the production unit (which includes taxes but less subsidies on the product)

Purchasers' price is the amount paid by the buyer for a unit of output less any taxes invoiced by the seller but deductible by the purchase

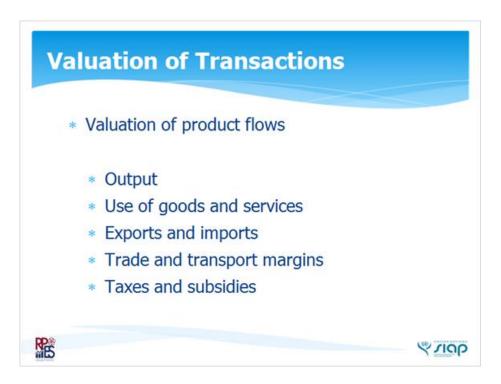


SIOD

1.12 Untitled Slide



1.13 Valuation of Transactions



1.14 Valuation of Transactions

Valuation of Transactions

Equality of supply and use

Supply at basic prices

Plus

 Taxes less subsidies on products (Including nondeductible VAT)

Plus

* Trade and transport margins

Equals

Supply at purchasers' prices

Equals

* Use at purchasers' prices

SIOD

1.15 Valuation of Transactions

Valuation of Transactions

- Transition.....
- Supply table: from basic prices to purchasers' prices
- Use table: from purchasers' prices to basic prices



SIOD

1.16 Example 1

Example 1 A simple numerical example: Farmer produces coffee beans 1,000 Farmer uses imported chemicals 600 Manufacturer roasts coffee beans 1,800 Uses coffee beans 1,000 Value added for farmer and manufacturer?

1.17 Retail industry

Retailer sells roasted coffee	1,600
Sales tax on sales to household	100
Purchases for resale	1,300
Total output for retailer?	
Retail margin ?	
Intermediate consumption	0
Value added for retailer?	10

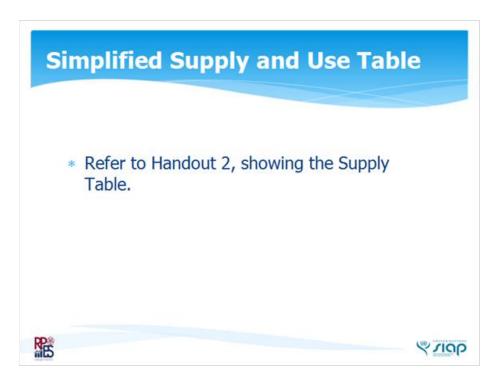
1.18 Final Use and GDP



1.19 Simplified Supply and Use Table



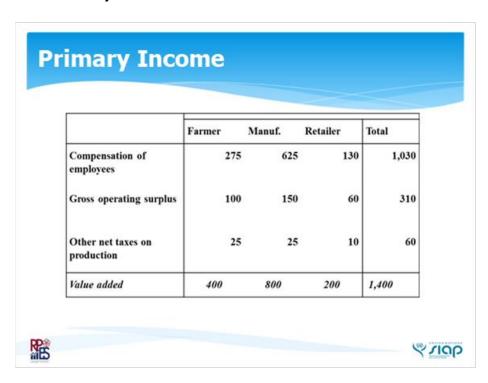
1.20 Simplified Supply and Use Table



1.21 Simplified Supply and Use Table



1.22 Primary Income



1.23 Use Table and income



1.24 Market and non-market output

Market and non-market output

- Market output
 - = Sales
 - + Change in inventories (finished goods and WIP)
- Non-market output (= Cost of production)
 - = Intermediate consumption
 - + Compensation of employees
 - + Other Taxes less subsidies on production
 - + Consumption of fixed capital



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1.25 Example 2

Example 2

- More complex economy comprising mining, manufacturing, public administration, and wholesale/retail trade;
- * Introduction of inventories.



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1.26 Mining

1. Mining			
Sales of gold	37	70	
 Sales of gas 	25	50	
 Purchases of gas 	4	0	
 Purchase of electricity 		2	
 Compensation of employ 	rees 25	50	
 Payroll tax 		3	
 Consumption of fixed cap 	pital 14	15	
Inventories:	Beginning	End	
 Finished goods (gold) 	35	44	
 Finished goods (gas) 	25	15	
* Fuel (gas)	24	27	

1.27 Manufacturing

* 2. Manufacturing			
 Sales of motor vehicles 	990		
 (of which Sales tax) 	100		
* Sales of electricity	272		
* Purchase of imported materials	230		
 Purchase of electricity 	100		
 Purchase of gas 	80		
 Purchase of statistical publication 	10		
 Compensation of employees 	470		
* Payroll tax	5		
 Consumption of fixed capital 	70		
Inventories:	Beginning	End	
 Finished goods (motor vehicles) 	60	70	
* Materials	53	66	
* gas	10	8	\$ CIOC

1.28 Public administration



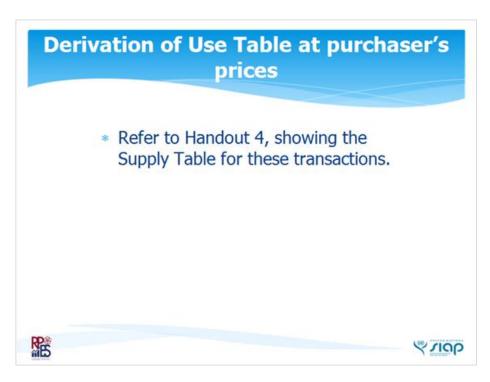
1.29 Wholesale/retail trade



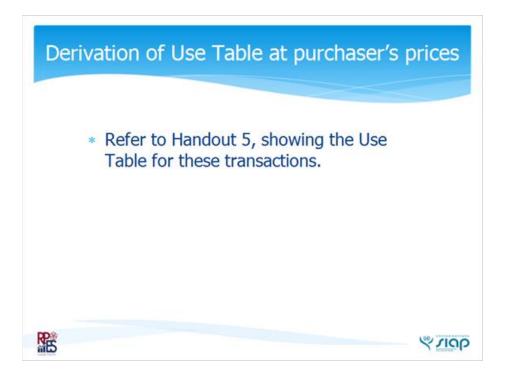
1.30 International trade and final use



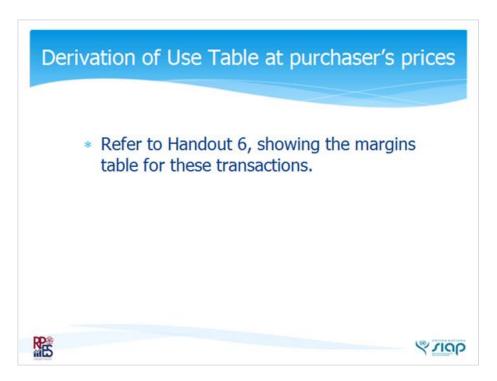
1.31 Derivation of Supply Table at basic/purchaser's prices



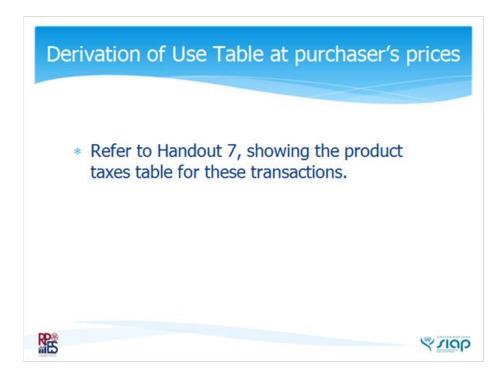
1.32 Derivation of Use Table at purchaser's prices



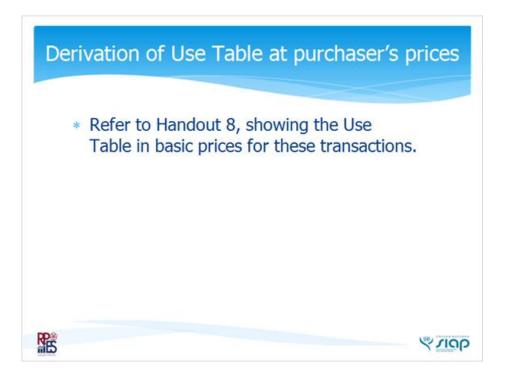
1.33 Derivation of Supply Table at basic/purchaser's prices



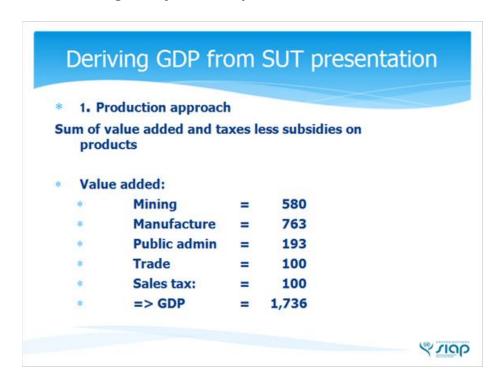
1.34 Derivation of Supply Table at basic/purchaser's prices



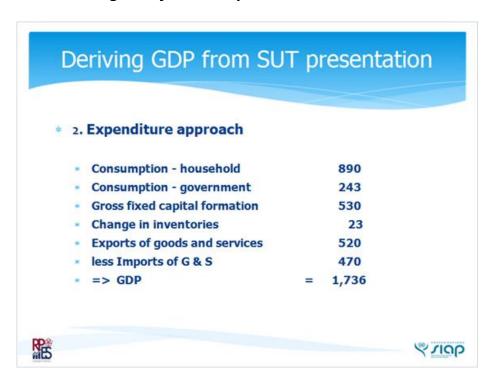
1.35 Derivation of Supply Table at basic/purchaser's prices



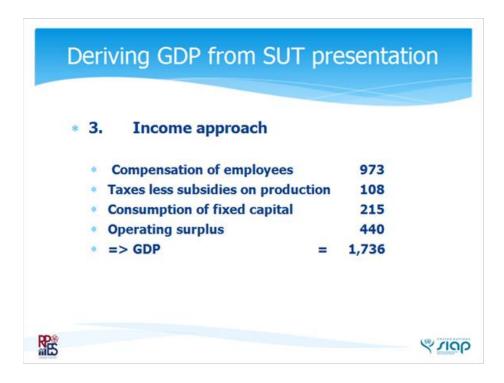
1.36 Deriving GDP from SUT presentation



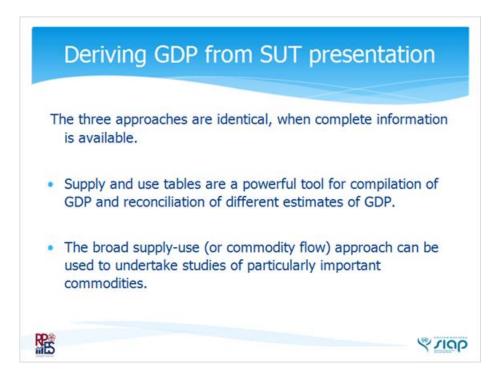
1.37 Deriving GDP from SUT presentation



1.38 Deriving GDP from SUT presentation



1.39 Deriving GDP from SUT presentation



1.40 Thank You



Notes: