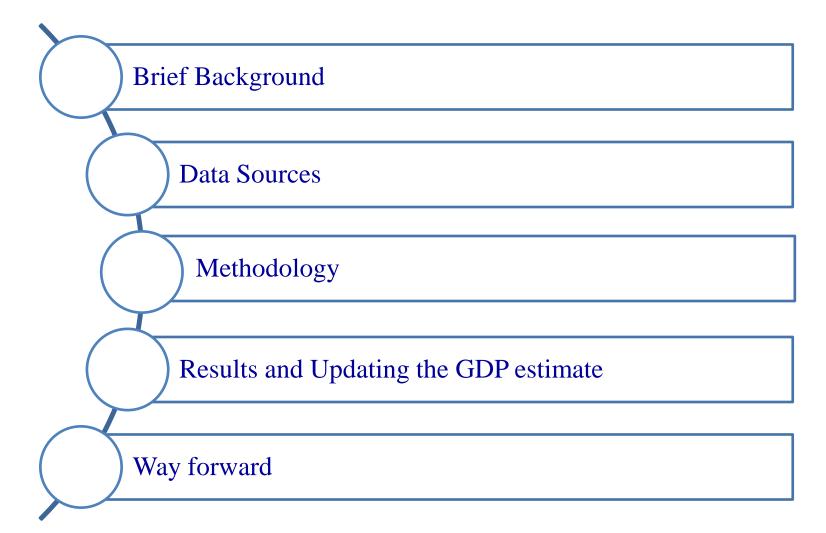
Meeting of the group of Experts on National Accounts 22-25 May 2018, Geneva, Switzerland

Updating the GDP time series using Annual Supply and Use Table

Tegshjargal Tsagaan
Statistician
National Accounts and Research Department,
National Statistics Office, Mongolia

OUTLINE



BRIEF BACKGROUND

SUTs are considered the most integrated framework showing the sources of supply of goods and services—produced in the domestic economy or imported—and where and how these are used, either for intermediate consumption or final use.

SUT framework serves a key tool for main aggregates for SNA

- checking the consistency of various data sources
- interdependencies
- reveal missing data
- basic information for IOT

Legal basis:

Law of Mongolia on Statistics, article 7

NSO is responsible for compiling SUT and IOT every 5 years

Mid-term program for developing of official statistics of Mongolia (2011-2015)

Compile annual SUT and IOT; Improve the estimation of annual and quarterly GDP based on the SUT results;

Mid-term program for developing of official statistics of Mongolia (2016-2020)

Compile annual SUT at constant price



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BRIEF BACKGROUND

1963 CPB

1966, 1970, 1977, 1983, 1987 CPB

(3 year, 4 year, 7 year, 6 year, 4 year)

1997 SUT
(10 year)

2000 SUT, IOT (3 year)

2005 SUT, IOT (5 year)

2010 SUT, IOT (5 year)

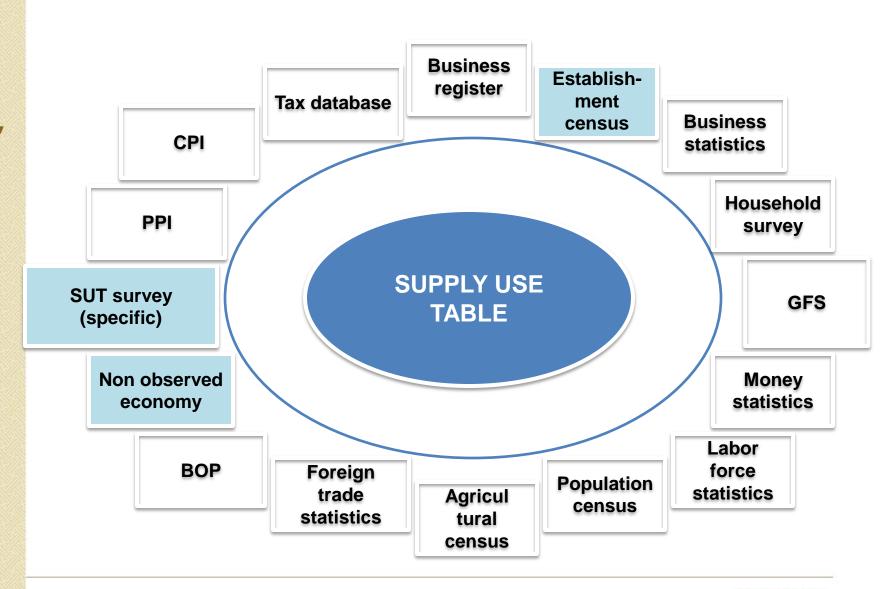
2011-2016 SUT, IOT

(every year)



مسطعهم و موسوسه

DATA SOURCE



DATA SOURCE and FREQUENCY

Present situation of National Accounts data compilation

ACCOUNTS	NATIC Q	NAL A	REG'L			
GDP by Production approach GDP by Expenditure approach GDP by Income approach	✓	✓ ✓ ✓	✓			
Consolidated Accounts:						
I: Production Account II: Generation of Income Account		√				
III: Allocation of Primary Income Account		\checkmark				
IV: Secondary Distribution of Income Account	t	\checkmark				
V: Use of Disposable Income Account		\checkmark				
VI: Capital Account		\checkmark				
VII: Financial Accounts		\checkmark				
VII: Rest of World Account		\checkmark				

METHODOLOGY

Based on the International guideline, National methodology has been developed and approved by Chairman's order.

SUT compilation : / More than 10 matrixes /

- Supply Table by basic price
 - Production matrix
 - Import matrix,
- Supply side Valuation matrixes
 - Trade margin matrix
 - Transport margin matrix
- Use Table by purchaser's price
 - Intermediate consumption matrix,
 - Final use column matrix,
 - Value added matrix,
- Use side Valuation matrixes
 - Trade margin matrix
 - Transport margin matrix
 - Production taxes(net) matrix



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METHODOLOGY

- Current SUT
 - Reference years: 2011- 2015
 - Size of Matrix: 311x 203
 - Classification of industries and products
 - ISIC rev.4 (3 digit)
 - CPC ver.2 (4-6 digit)
 - Other classification:

COICOP (HH cons.)

COFOG (Government cons)

COPNI (NPISH)

HS, SITC (export, import)

Classification of assets (GFCF)



المسطور و موسودوروس

RESULTS of SUT for 2014 Supply Table

			O		basic			Valuati	on	
	Agriculture	Mining	Manufacturing; construction	Services	DOMESTIC OUTPUT, at to prices	Import	TOTAL SUPPLY, at basic prices	Trade and transport margins	Taxes less subsidies on products	TOTAL SUPPLY, at purchasers' prices
Б	1	2	3	4	5	6	7	8	9	10
Agriculture, forestry and fishery products	4 113.1	19.0	0.0	0.0	4 132.2	113.5	4 245.7	543.1	54.7	4 042.2
Ores and minerals	0.0	7 932.1	74.4	10.8	8 017.3	19.5	8 036.8	483.9	9.5	5 532.2
manufacturing products	56.7	773.6	5 613.0	37.9	6 481.2	9 666.1	16 147.3	3 450.6	1 552.2	19 840.7
Барилга, барилгын ажил, үйлчилгээ	0.0	174.1	4 231.2	7.3	4 412.6	162.5	4 575.0	0.0	128.2	4 207.7
Constructions and construction services	8.4	372.4	978.1	16 895.5	18 254.5	2 215.4	20 469.9	-4 477.6	330.6	13 873.6
TOTAL	4 178.2	9 271.3	10 896.7	16 951.5	41 297.7	12 177.0	53 474.7	0.0	2 075.3	47 496.3
Direct purchases abroad by residents						508.7	508.7			508.7
OUTPUT at basic prices	4 178.2	9 271.3	10 896.7	16 951.5	41 297.7	12 685.7	53 983.5	0.0	2 075.3	56 058.8



المسطور و موسوسور

RESULTS of SUT for 2014, Use Table

	Intermediate consumption				Final consumption				AL.	_
	Agriculture	Mining	Manufacturing; construction	Services	INTERMEDIATE CONSUMPTION	Final consumption	GFCF	Export	TOTAL FINAL USE	TOTAL USE, at purchasers ' prices
A	1	2	3	4	5	6	7	8	9	10
Agriculture, forestry and fishery products	306.4	9.7	1 333.0	61.2	1 710.2	1 043.0	1 618.6	471.7	3 133.3	4 843.5
Ores and minerals	0.3	20.3	351.0	1.3	372.9	33.3	- 14.5	8 138.6	8 157.4	8 530.3
manufacturing products	329.4	2 670.5	4 283.5	2 832.6	10 116.0	6 597.2	2 512.6	1 924.5	11 034.2	21 150.2
Constructions and construction services	10.5	562.2	456.3	186.6	1 215.7	14.9	3 436.1	36.6	3 487.6	4 703.3
Services	566.4	2 347.6	1 132.9	3 684.5	7 731.4	7 525.3	265.6	800.6	8 591.5	
TOTAL	1 212.9	5 610.3	7 556.8	6 766.1	21 146.0	15 213.7	7 818.4	11 371.9	34 404.0	55 550.0
Direct purchases abroad by residents						508.7			508.7	508.7
Domestic purchases by non- residents						- 241.5		241.5		
TOTAL	1 212.9	5 610.3	7 556.8	6 766.1	21 146.0	15 480.9	7 818.4	11 613.4	34 912.8	56 058.8
Compensation of employees	236.6	765.8	905.4	3 944.6	5 852.5					
Other taxes on production, net	- 20.3	87.9	11.1	35.6	114.2					
CFC	20.0	455.6	367.4	864.6	1 707.5					
Operating surplus, net	2 729.0	2 351.8	2 056.1	5 340.5	12 477.5					
VALUE ADDED at basic prices	2 965.4	3 661.0	3 340.0	10 185.4	20 151.7					
OUTPUT at basic prices	4 178.2	9 271.3	10 896.7	16 951.5	41 297.7					

RESULTS and UPDATING GDP ESTIMATES

GDP(P) GDP(E) GDP(I)

GDF(F)	
Industry	Total
Agricultural	2 965.4
Mining	3 661.0
Industry	3 340.0
Service	10 185.4
GDP (P), Basic price	20 151.7
Taxes on Products (net)	2 075.3
GDP, market price	22 227.1

Final cons	Total
Final consumption	15 480.9
GFCF	7 818.4
Export	11 613.4
GDP (E), , purchaser's price	34 912.8
Import (-)	12 685.7
GDP (E), purchaser's price	22 227.1

- - (-)	
Factor income	Total
Compensation of Employees	5 852.5
CFC	1 707.5
Taxes on production(net)	114.2
Operating surplus/Mixed Income	12 477.5
Value added, Basic price	20 151.7
Taxes on Products (net)	2 075.3
GDP (I), purchaser's price	22 227.1

UPDATING GDP

GROSS DOMESTIC PRODUCT, at current prices, bln.tog - Before using SUT result

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GDP by Production approach	1224.1	1391.9	1550.6	1829.1	2361.2	3041.4	4027.6	4956.6	6555.6	6590.6	8414.5
GDP by Expenditure approach	1291.8	1424.7	1563.3	1848.0	2378.7	3041.4	4060.9	5042.5	6639.3	6568.4	8459.6
Statistical discrepency	-67.7	-32.9	-12.7	-18.9	-17.5	0.0	-33.3	-85.8	-83.8	22.2	-45.1

GROSS DOMESTIC PRODUCT, at current prices, bln.tog - After using SUT result

	2010	2011	2012	2013	2014	2015
GDP by Production approach	9756.6	13173.8	16688.4	19174.2	22227.1	23150.4
GDP by Expenditure approach	9756.6	13173.8	16688.4	19174.2	22227.1	23150.4
Statistical discrepency	0.0	0.0	0.0	0.0	0.0	0.0

WAY FORWARD

- Backward update GDP 2000-2009 using 2010 base year SUT result
- Revise GDP estimation based 2015 base year SUT result
- Use double deflation method

THANK YOU FOR YOUR ATTENTION

Web page: www.nso.mn

www.1212.mn