

Special Session on Supply and Use Tables and Input-Output Tables

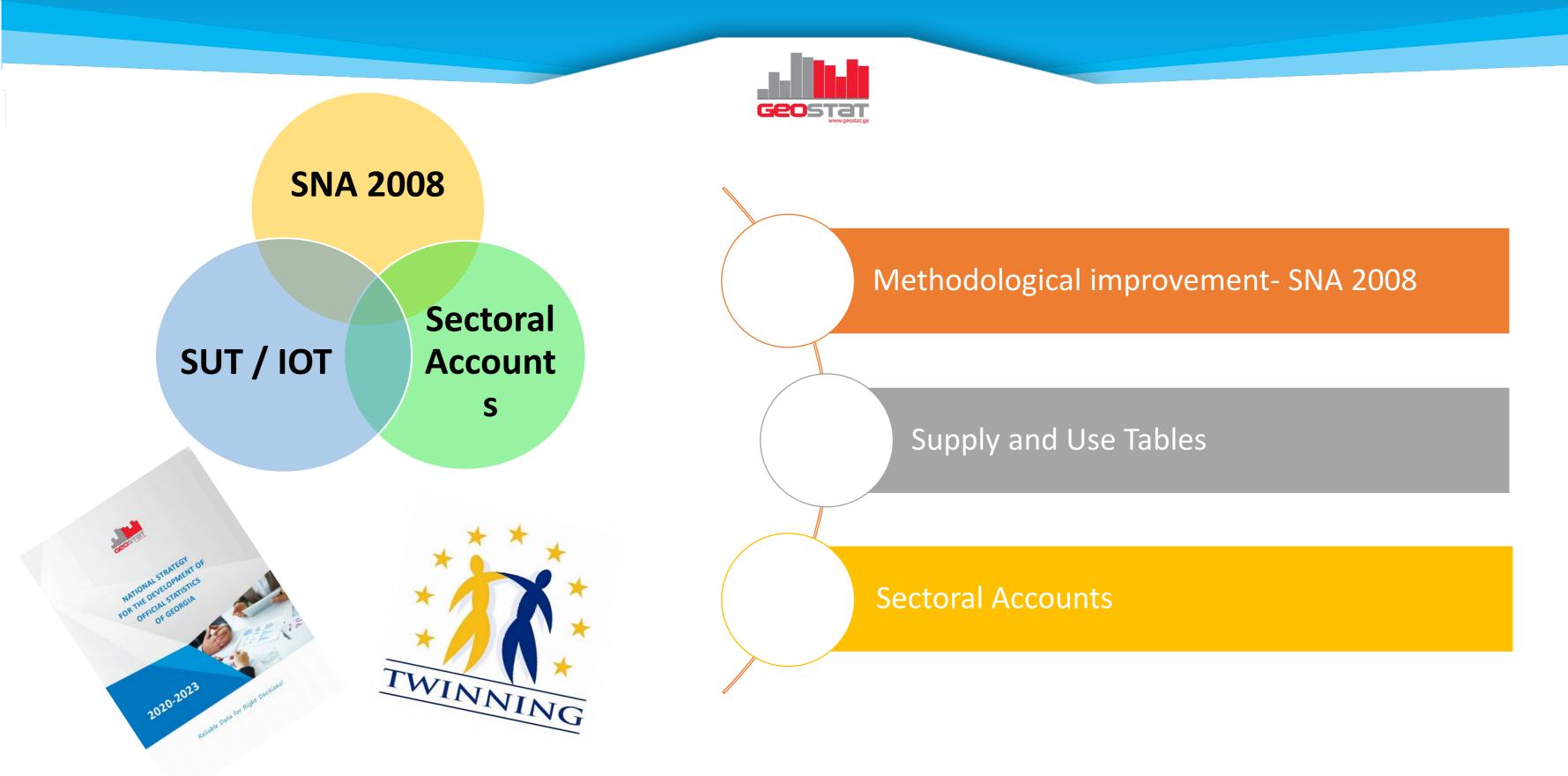
Compilation of SUT and IOT in Georgia



3-5 October 2022, Geneva, online



National Accounts Component in 2020-2023 Strategy



Overview of SUT



2007

• First release of annual (for year 2006) SUT at current prices

2006-2017 • SUT were compiled based on SNA1993, NACE Rev. 1.1(disseminated by: 67 prod.X45 act.)

Since 2018

• SUT are compiled on the basis SNA2008 SNA, NACE Rev. 2 (compiled by double digit level - 88 prod.X88 act.)

Current disseminatio

• SUT are published at current prices

Classifications and Corresponding Tables

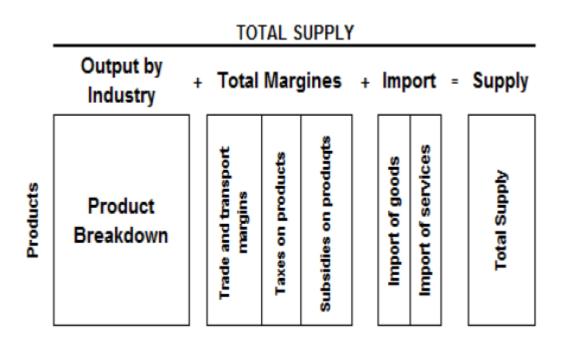


- NACE Rev.2 (Statistical classification of Economic Activities)
- CPA 2008 (Classification of products by activity)
- COICOP (Classification of individual consumption by purpose) => CPA 2008
- COFOG (Classification of the functions of government) => NACE Rev.2
- **GFS** (Government Finance Statistics)=> **CPA 2008**

Components of Supply Table



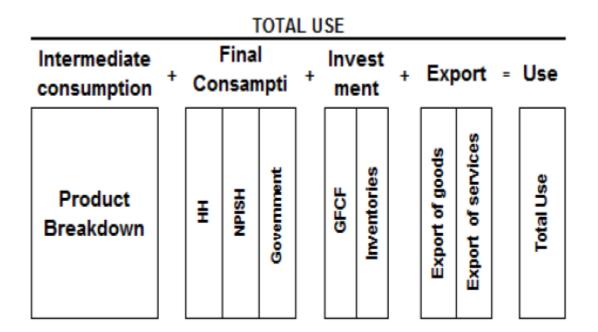
- Market output agricultural survey, business statistics, financial statistics, insurance statistics, non-observed economy;
- Non-market output Government Finance Statistics, NPISH;
- Production of households Special survey of HH;
- Owner-occupied dwellings user cost method;
- Trade and Transport Margins Matrix estimates based on specific products in SUT;
- Taxes Matrix— VAT (on imported and domestic goods), excise (on imported and domestic goods), import duties;
- Subsidies;
- Imports of goods and services (CIF) Balance of Payments.



Components of Use Table



- Intermediate consumption- market and non-market producers. The last Structural Survey of IC was carried out in 2018;
- Final Consumption of Households, NPISH, General Government;
- Exports of goods and services (CIF)— Balance of Payments;
- Gross Fixed Capital Formation data of financial and non-financial corporations, government finance statistics, special household survey;
- Changes in Inventories survey of non-financial corporations (Business statistics), NPISH, GG.



Balancing Steps



• A fully populated version of the SUT before the balancing

• Initial targets for the column totals of the use-table

Manual balancing

IV

Horizontal and Vertical Automatic adjustments

• SUT at constant prices are updated together with the SUT at current prices

• The final balancing will be performed by automatic procedures

Bridge Column



2018	Current prices.											
	_											
	• Bridge	column										
	• bridge	Columni										
	•											
Transaction: 1000 Output:	Product	Trans	Indust	BasicPrice	Wholes.mrg	Retail mrg	Taxes net	VAT	PurchPrice			
Cereals (except rice), legumino		1000			133,476	30,608	-104,144	0	855,338			
Rice, not husked	01120	1000			86	0	0	25	615			
Vegetables and melons, roots a		1000			53,281	70,363	520	39,206	718,463			
Sugar cane	01140	1000			0	0	0	0	0			
Unmanufactured tobacco	01150	1000			648	0	0	172	4,682			
Fibre crops	01160	1000			14	0	0	0	46			
Forage crops	01191	1000			70,955	10,712	0	0	241,362			
Cut flowers, seeds, raw vegetab	01192	1000			5,400	0	0	0	17,661			
Grapes, fresh or dried	01210	1000			78,316	6,717	256	0	681,540			
Fruits and nuts, except grapes	01220	1000			53,567	38,139	-25,661	0	726,831			
Coffee beans, tea leaves, cocoa	01270	1000			4,923	101	114	1,259	38,924			
Other perennial crops	01280	1000			1,668	1,816	0	0	18,991			
Planting material: plants, bulbs	01300	1000			16,626	76	0	0	55,550			

Wholesale trade, trade margins	46200	1000		-5,055,595	0	0	0	0	83,937			
Retail trade	47000	1000		-3,585,142	0	0	0	0	0			
	•••											
Freight rail transport services	49200	1000		-70,581	0	0	0	8,288	354,575			
	•••											
Freight transport by road	49400	1000		-246,960	0	0	0	18,216	724,735			
	•••											
	•••											
	!											
Bridge column	! Total			-8,958,278	418,960	158,532	-128,916	67,165	4,523,250			
	Į.											

Balancing Process



100.00		<u> </u>						ostat.ge								
2018			Import Bridge											Exports		Supply
																minus use
1000 GEL		Producti on	Imports	Bridge column	Supply		Intermed iate consum ption	Househol d final consump tion	tion of	Public indiv. Consum ption	Collectiv e consum ption	Gross fixed capital formation	Change s in inventor ies	Exports	Use	
						L		L		.						
Transaction code		Total	0700	1000	Total	⊢	Total	Total	3130	total	Total	Total	Total	6000	Total	
Industry / Consgroup						┢										
work-in-progress on cultiv.assets	00522	0			0		0	0	<u> </u>	0	0	0	0		0	0
Finished goods and work-in-progress nec.	00523				0		ŏ	ő		0	Ö	0	0		0	0
Cereals (except rice), leguminous crops and oil seed			410,157		959,204		1,008,549	123,571		0	0	0	23,551	39,133	1,194,803	-235,599
Rice, not husked	01120	010,011	504		504		1,000,010	120,071		ő	ő	0	20,001	55,155	1,101,000	504
	01130		105,859		550,973	-	529,625	620,426		ŏ	0	0	76,076	117,356	1,343,483	-792,510
	01140		103,033		330,373		56,510	020,420		0	0	0	2,446		58,956	-58,956
	01150		3,862		3,862		30,310	0		0	0	0	2,440	346	346	3,516
	01160		3,002		3,002		, v	0		0	0	0	, o	340	340	3,310
	01191		11		11		45,376	0		0	0	0	ŏ	338	45,714	-45,703
	01192		8,130		8,130		16,917	0		0	0	0	171	36	17,124	-8,994
	01210		9,175		536,251		619,113	25,707		0	0	0	23,010	2,932	670,762	-134,511
Fruits and nuts, except grapes	01220		124,413		660,787		202,626	230,357		0	0	258,188	13,510	146,405	851,087	-190,300
Coffee beans, tea leaves, cocoa beans	01270		30,716		32,526		106,876	250,557		Ö	ő	230,100	4,542	5,108	116,526	-84,000
	01280		7,006		15,507		100,070	7,571		Ö	ő	0	4,542	7,241	14,811	696
Planting material: plants, bulbs, tubers, roots, cuttings			37,479		37,511		18,243	80		Ö	ő	0	556	3,296	22,174	15,337
Dairy cattle, live	01411	426,266	9,244		435,510		168,864			ŏ	ő	51,556			303,156	132,355
Raw milk.	01420				933,603		100,004	9,889		0	0	31,330	4,700		9,889	923,714
	01421		570		570		l ő	167		0	0	20,930	6	98,964	120,054	-119,484
	01422		126		126	_	l ő	107		0	0	20,330	-0	30,304	120,034	126
	01430		40		40		l ő	0		0	0	0	ő	29	29	10
	01450		19,277		119,094		l ő	0		0	0	3,819	-157	14,475	18,137	100,957
	01453		15,211		3,470		ň	0		Ö	0	3,013	-137	329	329	3,141
	01460				251,624		ň	0		Ö	ő	7,073	-485		6,588	245,037
	01471				226,411		ň	0		Ö	0	35,919			39,606	186,805
	01472		2,677		219,673		591	140,524		Ö	ő	00,010	14,310		157,079	62,594
	01490				67,479		001	0.70,024		0	0	3,787			9,077	58,402
	01600				287,421		51,373	0		0	0	3,737	436		51,812	235,609
	01700				0		0.,070	0		0	0	0	0		0.,512	200,000
	02008				0		0	0		0	0	0	0		0	0
Forestry, logging. Gov.final consumption	02009				0		0	0		0	0	0	0		0	0
	02100		359		359		898	0		Ö	0	0	2	2,983	3,884	-3,525
	02210		15		276,926		44,858			Ö	0	0	12,120	1	184,611	92,314
	02240		293		293		26,492			Ö	0	0	.2,.20	5,725	32,216	-31,924
	02300		579		579		6,085			0	0	0	46	328	6,458	-5,879
	02400		5.0		0.0		0,550	0		0	0	0	0	520	0,100	0,570
	03000		8,105		65,706		20,669	25,541		0	0	0	-1,422	5,545	50,333	15,374
g and a quantum provider		27,001	5,.50		22,.30	•	20,000						.,	2,0.0	23,000	

Manual Balancing Process



Current prices.										
•										
• Wine,	cider, no	on-distille	d fermented be	verages						
•										
•										
Product	_		BasicPrice						Prim.Stat	
	_		1,342,985						1,065,21	
	_		54						4	
11020			74						6	
11020	0100	7700	4,948						4,92	
11020	0700		6,620						11,72	
11020	1000			129,124	148,520	-11,371	108,668	1,729,623		
! ! Total			1,354,681	129,124	148,520	-11,371	108,668	1,729,623	1,081,97	
! Product	Trans	Indust	BasicPrice	Wholes.mrg	Retail mrg	Taxes net	VAT	PurchPrice	Prim.Stat	
11020	2000	1012	145,841	19,164	0	-1,996	5,598	168,607	137,61	
	2000	3500	21	3	0	0	0	24		
	2000	4600	14	2	0	0	0	16		
	2000	4700	393	52	0	-5	38	478	54	
	2000	5556	19,221	2,526	579	-270	1,627	23,683	11,37	
_	2000	6400	84	11	0	-1	1	94		
		6800	210	28	0	-3	4	240	23	
_		8500	2	0	0	0	0	2		
11020	2000	8788	3	0	0	0	0	3		
11020	_	9092	73	10	7	-1	3	90	3	
_	_		41	5	4	-1	1	50	3	
	_	9400		35	24	-4	47	371	11	
_	_								2,83	
_	_				0	-94	0		_,_	
_	_		-	0	0	0	0			
_	_			0	0	-296				
_	_		-	1.890	0					
_	_				0	0			504,07	
1			220,021	52,230				220,220	20.,01	
	• Wine, • • Product 11020 11020 11020 11020 11020 11020 ! ! Total	• Wine, cider, no • Product Trans 11020 0100 11020 0100 11020 0100 11020 0100 11020 1000 11020 1000 ! ! Total ! Product Trans 11020 2000	• Wine, cider, non-distilled • Product Trans Indust 11020 0100 1012 11020 0100 6800 11020 0100 7700 11020 0700 11020 1000 ! ! Total ! Product Trans Indust 11020 2000 1012 11020 2000 3500 11020 2000 4600 11020 2000 4700 11020 2000 6400 11020 2000 6800 11020 2000 6800 11020 2000 8588 11020 2000 9092 11020 2000 9092 11020 2000 9300 11020 2000 9300 11020 2000 9400 11020 2000 9400 11020 3110 021 11020 5210 11020 5251 11020 5251	• Wine, cider, non-distilled fermented be • 1020 0100 1012 1,342,985 11020 0100 2500 54 11020 0100 6800 74 11020 0100 7700 4,948 11020 0700 6,620 11020 1000 ! ! Total 1,354,681 ! Product Trans Indust BasicPrice 11020 2000 1012 145,841 11020 2000 1012 145,841 11020 2000 4600 14 11020 2000 4600 14 11020 2000 4700 393 11020 2000 6400 84 11020 2000 6800 210 11020 2000 6800 210 11020 2000 8788 3 11020 2000 8788 3 11020 2000 9092 73 11020 2000 9092 73 11020 2000 9400 268 11020 3110 021 513,230 11020 5223 1,195 11020 5251 6,865 11020 5251 24,508	• Wine, cider, non-distilled fermented beverages • Product Trans Indust BasicPrice 11020 0100 1012 1,342,985 11020 0100 6800 74 11020 0100 7700 4,948 11020 0700 6,620 11020 1000 1000 129,124 ! ! Total 1,354,681 129,124 ! Product Trans Indust BasicPrice Wholes.mrg 11020 2000 1012 145,841 19,164 11020 2000 4600 14 2 11020 2000 4700 393 52 11020 2000 4700 393 52 11020 2000 6800 21 3 11020 2000 6800 210 28 11020 2000 6800 210 28 11020 2000 8788 3 0 11020 2000 9092 73 10 11020 2000 9092 73 10 11020 2000 9300 41 5 11020 2000 9400 268 35 11020 3110 021 513,230 41,916 11020 5223 1,195 0 11020 5251 24,508 0 11020 5251 24,508 0 11020 5252 14,386 1,890	* Wine, cider, non-distilled fermented beverages * Product Trans Indust BasicPrice 11020 0100 1012 1,342,985 11020 0100 6800 74 11020 0100 6800 74 11020 0700 6,620 11020 1000 1000 6,620 11020 1000 1000 129,124 148,520 ! ITotal 1,354,681 129,124 148,520 ! Product Trans Indust BasicPrice Wholes.mrg Retail mrg 11020 2000 1012 145,841 19,164 0 11020 2000 3500 21 3 0 11020 2000 4700 393 52 0 11020 2000 4600 14 2 0 11020 2000 4700 393 52 0 11020 2000 5556 19,221 2,526 579 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 6800 210 28 0 11020 2000 8788 3 0 0 11020 2000 8788 3 0 0 11020 2000 9992 73 10 7 11020 2000 9902 73 10 7 11020 2000 9900 41 5 4 11020 2000 9900 41 5 4 11020 2000 9900 41 5 4 11020 2000 9400 268 35 24 11020 3110 021 513,230 41,916 147,906 11020 5223 1,195 0 0 11020 5251 24,508 0 0	* Wine, cider, non-distilled fermented beverages * Product Trans Indust BasicPrice 11020 0100 1012 1,342,985 11020 0100 2500 54 11020 0100 6800 74 11020 0100 6800 74 11020 0100 6800 129,124 148,520 -11,371 1	• Wine, cider, non-distilled fermented beverages • Wine, cider, non-distilled fermented beverages • Wine, cider, non-distilled fermented beverages • Product Trans Indust BasicPrice 11020 0100 1012 1,342,985 • • • • • • • • • • • • • • • • • • •	* Wine, cider, non-distilled fermented beverages * Trans Indust BasicPrice 11020 0100 2500 54 11020 0100 7700 4,948 11020 0100 7700 6,620 11020 0100 1000 6800 74 11020 0100 1000 6,620 11020 1000 1000 1000 129,124 148,520 -11,371 108,668 1,729,623 1 Trotal 1 1,354,681 129,124 148,520 -11,371 108,668 1,729,623 1 Product Trans Indust BasicPrice Wholes.mrg Retail mrg Taxes net VAT PurchPrice 11020 2000 1012 145,841 19,164 0 -1,996 5,598 168,607 11020 2000 3500 21 3 0 0 0 0 24 11020 2000 4600 14 2 2 0 0 0 0 16 11020 2000 4700 393 52 0 -5 38 478 11020 2000 4600 14 2 0 0 0 0 16 11020 2000 4700 393 52 0 -5 38 478 11020 2000 5556 19,221 2,526 579 -270 1,627 225,683 11020 2000 6800 210 28 0 -3 4 240 11020 2000 6800 210 28 0 -3 4 240 11020 2000 6800 210 28 0 -3 4 240 11020 2000 6800 210 28 0 -3 4 240 11020 2000 6992 73 10 7 -1 3 90 11020 2000 6992 73 10 7 -1 3 99 11020 2000 6900 241 5 4 -1 1 50 11020 2000 6900 273 10 7 -1 3 99 11020 2000 6900 248 3 5 24 -4 47 371 11020 2000 6900 268 35 24 -4 47 371 11020 5210 6,865 902 0 -94 0 7,673 11020 5223 1,195 0 0 0 0 -96 0 24,215 11020 5251 24,508 0 0 -296 0 24,215 11020 5251 24,508 0 0 0 -296 0 24,215 11020 5251 24,508 0 0 0 -296 0 24,215	



















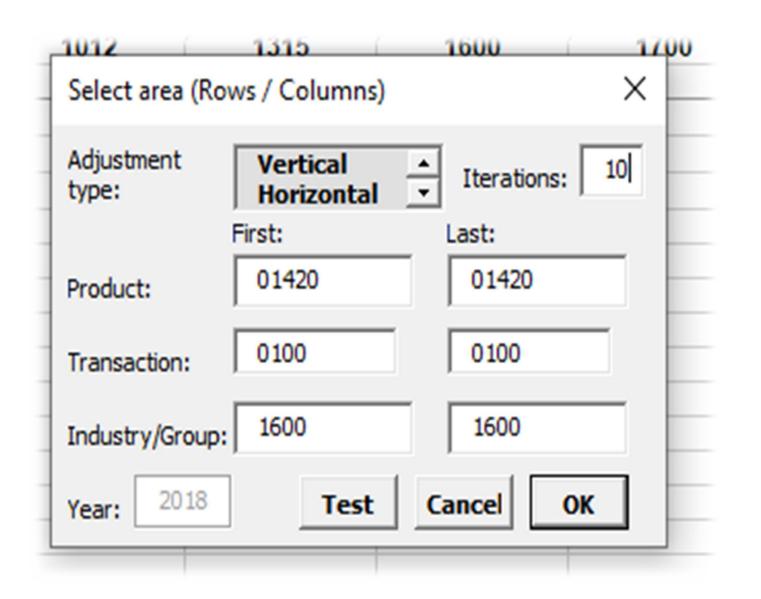




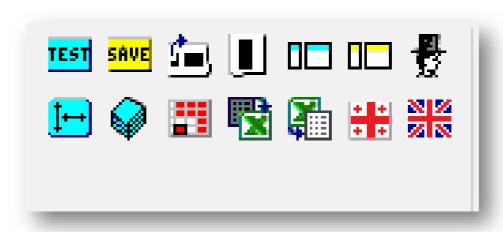


Automatic Balancing

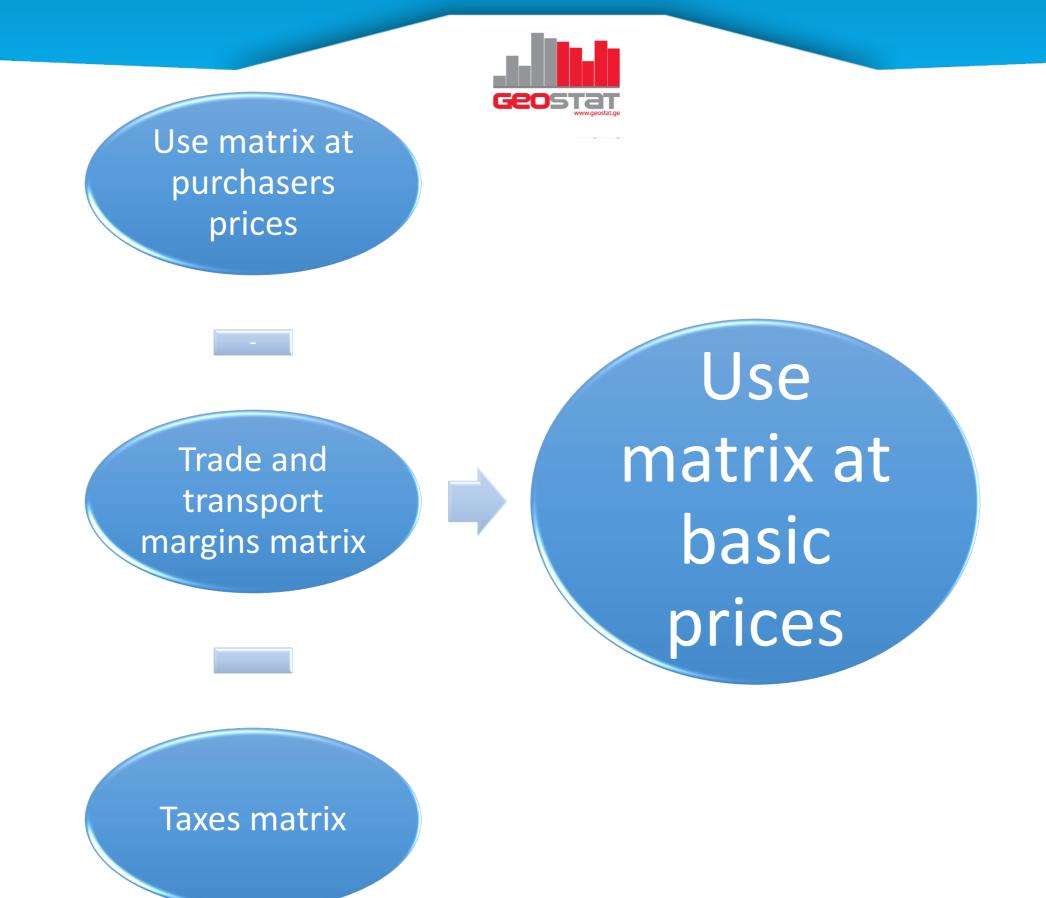




RAS method for balancing at basic prices - performed by repeated proportional adjustments of a matrix to targets for row - and column totals.



Use Matrix - from Purchasers to Basic Prices



Latest Development



Compilation of Supply and Use Tables (SUT)

- More detailed framework for Supply and Use tables at current prices - Internal system: about 330 products and 64 industries (based on 2018 data);
- Compilation of the third quadrant;
- Macro based tool for balancing the SUT;
- SUT at constant prices (based on 2018 data).

Input-Output Table (IOT model D)

• Input-Output table compilation method was implemented and experimental IOT at 2020 current prices was disseminated.

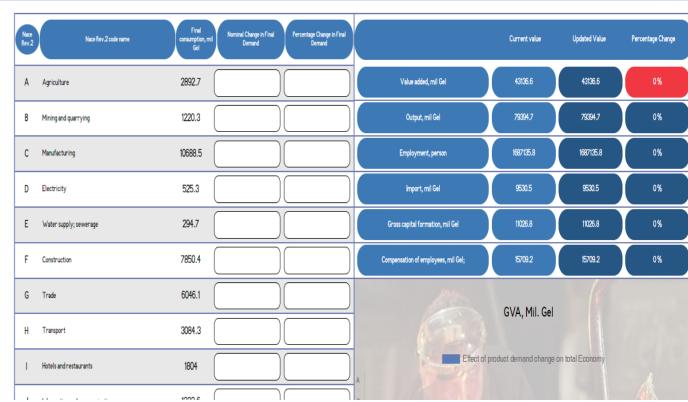
Analysis of Input-output table

• Analytical indicators (multipliers) of IOT were developed.

Portal of Economic Analysis

http://eap.geostat.ge/en







Thank you for your attention!

National Statistics Office of Georgia

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Reliable Data for Right Decisions!