



NOE adjustments by branches of economy

Data from UNECE survey on country
practices in measuring NOE



Albania

- ❖ **Table1. Value added produced by the non-observed economy (Percentage of total VA by branch)**

Branches	2001	2002	2003
Agriculture, hunting and forestry	11.4	11.3	11.0
Industry	7.7	10.1	12.8
Construction	67.7	73.2	77.0
Trade, hotels and restaurants	60.0	56.1	51.5
Services	15.5	15.5	17.5
Value added at basic prices (without FISIM)	30.4	30.5	30.8



Armenia

❖ Adjustment for Non-Observed Economy - 2003

	Total
	Share of NOE by branch (Percentage)
Agriculture	23.2
Industry	37.6
Construction	41.0
Transport and communication	16.5
Trade	55.0
Other branches	12.3
Total GDP at market prices	28.9

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Azerbaijan

	2003		
	Adjustments for NOE in GDP	NOE adjustments in VA by industry	NOE in GDP
	billion manats	per cent	per cent
Industry	2 555.1	19.2	7.2
Agriculture, hunting and forestry	1 561.2	35.6	4.4
Fishing	60.1	100.0	0.2
Construction	797.7	19.9	2.2
Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	1 156.4	45.6	3.2
Hotels and restaurants	16.9	10.2	
Transport and storage	598.6	21.3	1.7
Communication	6.8	0.9	
Financial intermediation			

	2003		
	Adjustments for NOE in GDP	NOE adjustments in VA by industry	NOE in GDP
	billion manats	per cent	per cent
Real estate, renting and business activities	91.9	8.6	0.3
Public administration and defense: social security	32.6	2.5	0.1
Education	168.0	14.3	0.5
Health and social work	167.3	29.9	0.5
Other community, social and personal service activities	177.9	30.0	0.5
FISIM			
Taxes on products and imports			
Subsidies on products			
Gross domestic product			20.7

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Belarus

- ❖ The share of the non-observed economic activities in the GDP of Belarus was estimated to be 10.7 per cent in 2003, of which
- agriculture 4.6 %
 - trade and public catering 3.4 %
 - housing construction 1.3 %
 - industry 0.4 %
 - transport 0.2 %
 - other services 0.3 %

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Bulgaria

Adjustments to GDP, 2001

	Informal & households own final use (N3)	Underground (N1, N4, N5, N6, N7)	Total
Percentage of GDP			
A Agriculture, hunting, forestry	2.2	0.1	2.3
C Mining and Quarrying		0.0	0.0
D Manufacturing		2.6	2.6
E Electricity, gas and water supply		0.0	0.0
F Construction	0.3	1.2	1.5
G Trade		0.9	0.9
H Hotels, restaurants		0.1	0.1
I Transport, Communication		1.7	1.7
J Financial intermediation		0.0	0.0
K Real estate		0.4	0.4
M Education		0.2	0.2
N Health		0.1	0.1
O Other community, social and personal services		0.3	0.3
Total Adjustments	2.5	7.7	10.2

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Croatia

Share of non-exhaustiveness adjustments (per cent)

Activities according to NACE	2002
A Agriculture, hunting and forestry	7
B Fishing	0.6
C Mining and quarrying	0.2
D Manufacturing	22.4
E Electricity, gas and water supply	0.4
F Construction	10.1
G Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	19.2
H Hotels and restaurants	9.7
I Transport, storage and communication	5.7
J Financial intermediation	2.2
K Real estate, renting and business activities	14.5
L Public administration	0.2
M Education	0.6
N Health and social work	2
O Other community, social and personal service activities	5.2
Total (excluding illegal)	100



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Finland

❖ NOE of output 2002

Industry	NOE (million euros)	Percentage of output
Construction, buildings	387	2.7
Transport (land, taxis)	238	5.0
Trade	80	0.8
Hotels, restaurants	98	2.1
Business activities	62	0.4



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Georgia

❖ Share of non-observed output by main types of economic activity

	2004
Agriculture, Forestry, Fishing	9.4
Mining and quarrying	10.3
Manufacturing	37.9
Electricity, gas and water supply	9.1
Processing products by household for sale or for self consumption	
Construction	33.5
Trade services, Repair services	60.2
Restaurant and Hotel services	71.6
Transport and storage	38.7
Communications	15.0
Financial intermediation; Real estate, renting and business activities	4.8
Real estate, renting and business activities	48.6
Public administration and defence	
Education	34.3
Health care and social services	52.7
Other community, social and personal services	18.6
Private households with employed persons	
Inputted rent of own dwelling services	
Net taxes	
Total output	28.3



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Kyrgyzstan

	Share of NOE in GDP (percentage)	Share of NOE by branches (percentage)	
		In gross output	In gross value added
Mining Industry	0.0	0.3	0.1
Manufacturing Industry	2.0	9.5	15.1
Construction	0.6	19.0	19.1
Transport	1.0	31.0	32.2
Trade, repairs of automobiles, domestic articles and personal goods	12.6	79.5	83.0
Hotels and restaurants	0.2	12.1	13.3
Real estate activities, renting and providing services	0.0	2.9	1.7
Financial activities	0.1	2.9	9.4
Health care and social services	0.1	9.0	7.9
Education	0.2	7.0	4.6
Communal, social and personal services	0.2	13.6	16.5
Total	x	14.4	17.0



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Lithuania

Summary of GVA
Adjustments: Output
Approach, 2001

Sectors	Total as included in published GDP	
	Absolute	% of GDP
A	226.7	0.5
B	17.9	0.0
C	35.8	0.1
D	1 629.7	3.4
E	34.3	0.1
F	976.9	2.1
G	2 591.5	5.5
H	367.2	0.8
I	1 425.3	3.0
J		
K	530.9	1.1
L		
M	193.1	0.4
N	50.7	0.1
O	557.0	1.2
P	43.6	0.1
Total	8 680.5	18.3



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Moldova

Economic activities	2001			Total
	Informal sector	Households production for own consumption	Hidden economy in formal sector	
Agriculture, hunting, forestry and fishery	3	12.9	0.1	16
Industry	0.9	1.0	1.8	3.7
Construction	0.6	0.1	0.7	1.4
Wholesale and retail trade	3.6		2.1	5.7
Hotels and restaurants	0.1		0.1	0.2
Transport and communication	0.5		0.8	1.3
Other commercial and personal services	0.5	1.8	1.0	3.3
Total	9.2	15.8	6.6	31.6
of which non-agricultural	6.2	2.9	6.5	15.6



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Montenegro



Share of non-observed economy in GDP, 2002

ACTIVITIES BY NACE		Total NOE as % of GDP	Absolute million €	Share in total NOE Adjustments
A	Agriculture, hunting and forestry	2.0	148.4	11.4
D	Manufacturing	0.2	141.5	10.9
F	Construction	0.7	49.5	3.8
G	Wholesale and retail trade and repair services	2.9	160.1	12.3
H	Hotels and restaurants	0.3	31.9	2.5
I	Transport, storage and communication	0.9	145.8	11.2
K	Real estate, renting and business activities	0.3	98.9	7.6
M	Education	0.2	56.0	4.3
N	Health and social work	0.3	50.8	3.9
TOTAL		7.8	882.7	67.8
Other activities not specified*		..	418.8	32.2
GDP			1 301.5	100.0

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Poland



Share of the non-observed economy in GDP by industry in 2002

	N1 Underground producers	N2 Illegal producers	N5 Registered entrepreneurs not surveyed	N6 Misreporting	N7 Other statistical deficiencies	Total
Industry (C,D,E)	0.2	0.0	-	0.2	1.1	1.5
Construction (F)	1.2	-	-	0.8	0.5	2.5
Trade (G,H)	1.1	0.4	-	4.1	1.5	7.1
Transport (I)	0.2	-	-	0.2	0.2	0.6
Real estate and business act. (K)	0.1	-	-	1.5	0.5	2.1
Other sections (A,B,M,N,O,P)	0.6	0.2	0.0	0.4	0.1	1.3
VAT fraud	-	-	-	0.6	-	0.6
Total	3.4	0.6	0.0	7.8	3.9	15.7

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Russia



	NOE % of total VA of sector	VA of non-observed economy			NOE % of total VA of sector	VA of non-observed economy	
		Legal entities as % of total NO VA	Household sector as % of total MO VA			Legal entities as % of total NO VA	Household sector as % of total NO VA
Agriculture, hunting, and forestry	66.5	1.6	33.3	Real estate, renting and servicing	31.6	14.4	9.6
Fishing, fisheries	75.2	2.2	0.4	Public administration and defence, compulsory social security	0.0	0.0	0.0
Mining and quarrying	5.0	2.0	0.1	Education	3.8	0.2	0.6
Manufacturing	13.3	11.9	3.2	Health and social work	9.0	0.9	1.2
Electricity, gas and water supply	0.5	0.1	0.0	Other community, social and personal services	9.8	0.7	0.6
Construction	24.0	6.3	4.1	TOTAL	100	100	
Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	59.8	52.7	42.0	Total as % of GDP	24.3		
Hotels and restaurants	43.1	1.6	0.9				
Transport and communication	12.2	5.3	4.1				
Financial intermediation	0.0	0.0	0.0				

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Serbia



Sectors/NACE sections	Total	
	Absolute	% of GDP
A	5 775.2	0.53
B	29.0	0.00
C	654.1	0.06
D	17 096.4	1.56
E	0.0	0.00
F	24 397.1	2.23
G	49 206.8	4.49
H	3 388.3	0.31
I	4 299.5	0.39
J	5 999.9	0.55
K	14 341.4	1.31
L	2 661.9	0.24
M	4 060.9	0.37
N	524.7	0.05
O	27 078.7	2.47
P	6.3	0.00
Total:	159 520.3	
Adjustment as % of GDP		14.56

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TFYR of Macedonia

Adjustments of
value added by
selected economic
activity, 2003

Value added at basic prices- total	16.3
of which:	
Manufacturing	5.4
Construction	2.4
Wholesale and retail trade; repair of motor vehicles etc.	4.9
Hotels and restaurants	1.1
Transport, storage and communication	0.6
Real estate, renting, and business activities	1.4

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Ukraine

NACE activity	2004
Agriculture, hunting, forestry and fishing	7.2
Mining and quarrying, manufacturing, production and distribution of electricity, gas and water	3.7
Construction	1.1
Wholesale and retail trade, hotels and restaurants	3.5
Transport and communication	1.4
Other activities	2.0
Total	18.9

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