Bank of Albania's Challenges during the Covid-19 Crisis

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Legislation on statistics

BOA's Mision is to compile impartial, objective and reliable statistics in the service of fulfilling the Bank's legal objectives as the central bank of the Republic of Albania and as a statistical agency within the National Statistical System.

- The 'Law On Bank of Albania', No. 8269, dated 23.12.1997 provides complementary legal mandate to the BOA to compile the balance of payments of Albania

https://www.bankofalbania.org/web/Law_No_8269_dated_23_12_1997_On_Bank_of_Albania_204_2.php?kc=0,28,0,0,0

- National Statistical Law No.17/2018 "On Official Statistics", as amended,

http://www.instat.gov.al/media/3972/law-no17-2018-on-official-statistics.pdf

- New Official Statistics National Programme 2017-2021

http://www.instat.gov.al/media/3705/psz-2017-2021_english.pdf

- Decision 2017-19, of the Supervisory Council of the Bank of Albania on the "Code of Practice in the Bank of Albania"

Data exchange between institutions

BOA exchanges a number of statistical sets with other national institutions.

(INSTAT, Ministry of Finance, National agency for natural resources; Sometimes MoU are required)
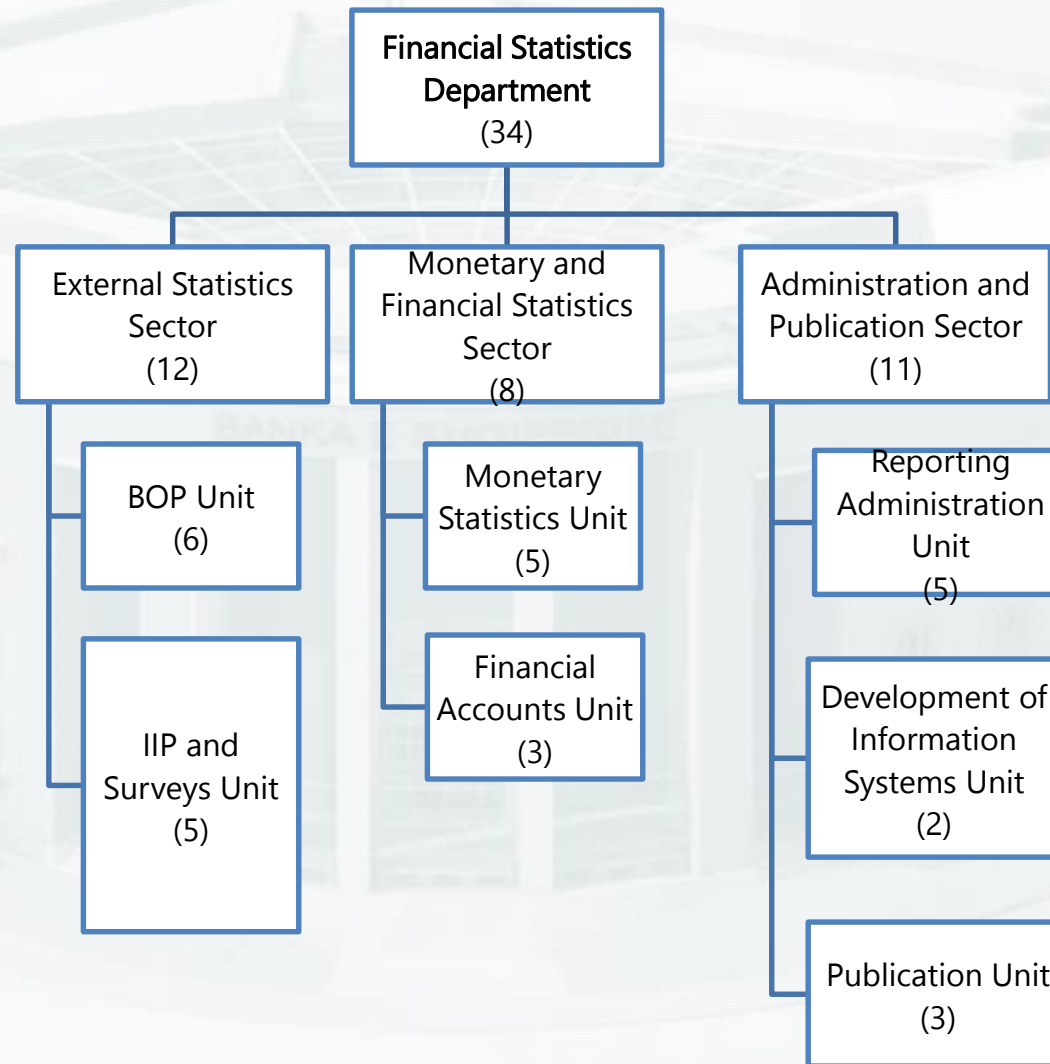
Working groups in place:

1. Working group between institutions related to national accounts, monetary and ES statistics.
2. Cooperation with the Financial Supervision Authority regarding the statistical information for the financial nonbanking system under FSA.
3. Reports to IMF, EUROSTAT and ECB;
   a) Regional project of IMF on government finances and EDP;
   b) The e-GDDS project; collaborations for switching to SDDS.
4. The Progres Raport on integration - chapter 18. Statistics.

Data exchange between institutions:

1. DI register (BOA, INSTAT)
2. Eurobond issued by GG (MoF, BOA)
3. Coordination of BOA surveys (BOA, INSTAT)
4. Trade in goods c.i.f (from INSTAT to BOA), BOP (from BOA to INSTAT for SNA purposes).

Financial Statistics Department

Financial Statistics Department (34)

External Statistics Sector (12)
- BOP Unit (6)
- IIP and Surveys Unit (5)

Monetary and Financial Statistics Sector (8)
- Monetary Statistics Unit (5)
- Financial Accounts Unit (3)

Administration and Publication Sector (11)
- Reporting Administration Unit (5)
- Development of Information Systems Unit (2)
- Publication Unit (3)

Implications for Central Banks during the Covid-19 crisis

The outbreak of COVID-19 (Coronavirus) and measures implemented to limit its spread have impacted the routine compilation and dissemination of official statistics. The collection of official data has become increasingly difficult with the temporary closure of non-essential businesses and some public offices and restrictions of movement.

Missing source data have potentially affect the compilation of price statistics, balance of payments, and national accounts data in the last months.

- **Frameworks**

• Need for revised frameworks to support policy making;

• Comprehensive economic understanding;

• Flexibility to address growing users' needs.

Implications for Central Banks during the Covid-19 crisis

- Delays from direct reporters;
- Necessity to shift to alternative mechanisms for data collection;
- Develop mechanisms to deal with non-response;
- Provide more information to core users;
- The risk of misreporting the unusual activities of the General Government;
- Reduce as much as possible the publication of low quality data;
- Methodological innovations.

Impact of COVID-19

IMF and Eurostat assisted countries in compiling statistics facing new challenges from COVID-19:

- IMF Special Series on Statistical Issues to Respond to COVID-19-ensuring-continuity-in-the-production-of-external-sector-statistics.pdf

-https://ec.europa.eu/eurostat/documents/10186/10693286/BOP_guidance.pdf

The most affected components: travel, compensation of employees and workers' remittances

in millions of euro	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Quarterly change y.o.y
Current account	-76	-95	-99	-113	-131	-52	-43	-5	-128	-95	-109	-142	-29	-87	-118	-121	-137	-120	28%
Credit	374	375	439	486	466	517	618	667	455	524	431	484	453	431	281	213	252	343	-45%
Debit	451	470	538	599	597	569	661	673	583	618	540	625	482	518	399	334	389	463	-33%
Goods	-199	-247	-249	-268	-265	-249	-295	-276	-254	-292	-258	-294	-196	-243	-214	-188	-213	-255	
Credit	59	59	92	80	88	74	77	74	75	82	73	73	64	73	63	48	63	60	-29%
Debit	258	305	341	348	353	323	371	350	329	374	331	367	261	316	276	236	276	315	-19%
Services	91	102	94	80	59	119	192	198	55	134	85	55	122	97	49	49	43	47	
Credit	221	218	238	267	244	306	407	463	250	297	231	261	274	243	131	92	91	135	-61%
Debit	130	116	144	188	184	186	215	265	196	164	146	206	152	145	82	42	48	88	-68%
Travel	20	23	33	6	11	65	120	141	-6	50	31	7	43	43	7	0	-7	4	
Credit	109	103	137	153	146	207	283	358	142	164	132	151	152	139	55	5	7	50	-88%
Debit	88	80	104	147	135	143	163	216	148	113	101	144	110	96	48	5	13	46	-85%
Compensation of employees	16	13	18	33	30	34	25	31	21	34	19	27	21	18	7	0	3	40	
Credit	17	16	20	36	33	36	27	34	23	36	21	29	23	20	9	2	5	42	-54%
Debit	2	2	3	3	3	2	2	3	2	2	2	3	2	2	2	2	1	2	
Workers' remittances	47	49	54	62	62	61	66	57	63	60	58	64	52	57	43	26	40	54	
Credit	47	49	54	62	62	61	66	57	63	60	58	64	52	57	43	26	40	54	-35%
Debit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Impact of COVID-19

- No delays on data production

- Border surveys have been stopped as of first quarter of 2020 (travel survey and migrants survey)

Travel solution

The main indicator is the number of travellers, provided regularly from the Ministry of Interior;

The coefficients on average expenditure and duration of stay were based on the same corresponding quarter of last year, indexed with the price of 2019. During April and May, most of the travellers were for business purposes (seasonal workers) and health related and those for repatriation after the lockdown. In June 15th, the borders were reopened, but other countries has restrictions for Albania for tourism purposes (Montenegro, Macedonia, Greece, Italy and other EU countries, except Kosovo).

Compensation of employees

 No movements of seasonal workers starting from March 14th. An agreement between Albania and Greece for permission of travelling of approx. 15,000 Albanian seasonal workers has been put in force in mid May.

For those who have been stuck abroad (still earning & sending money via official channels), an estimation is done based on the average number of the first quarter and on those jobs that didn't stop during the lockdown (such as agriculture production, manufacturing, hospitals).

Impact of COVID-19

Workers' remittances

Data from ITRS and MTO are provided regularly on monthly basis.

No movements of migrants in/out Albania starting from March 14ᵗʰ. The result: **NO CASH**!

The percentage of *cash remittances* was estimated zero for the consecutive months of April and May.

The situation started to change, in the middle of June. The *cash remittances* was estimated at 11 %.

The *cash percentage* was applied only to those countries that initiated a gradually movement of people (for essential reasons only) such as Greece, Italy, United Kingdom and Germany.

Impact of COVID-19

<u>FDI and related income</u>

Less new FDI activity during the period however there were investment flows from parents to support affiliates with difficulties.

Reduction in accounting profits and activity in general.

Limited dividends distributed.

❖ To overcome the challenges we have checked carefully with the main contributors and use of the usual cross-checking ITRS source.

❖ Need for nowcasting models with different scenarios depending on the sector of the economy.

ESS Automation Project

- Project proposal dated end of 2016

- The approval by Management dated end of 2018, to start the procurement procedures.

- The project started February 2019 and contract duration was 1 year.

- The main objective of the project of "External Sector Statistics Compilation System" is to establish a robust, modern and sustainable environment for compiling statistics according to international standards.

- The new system will solve the following problems:
  - Manually processing of statistical data
  - Inefficient use of human resources dealing with data processing due to high load of mechanical tasks
  - High exposure to operational and reputational risk
  - Qualitative and quantitative differences in data reporting and dissemination comparing with other European countries
  - Lack of centralization of the data collection from reporting sources
  - Lack of standardization of inputs and outputs at the Department of Financial Statistics therefore jeopardizing the macroeconomic reconciliation with other datasets
  - Numerous difficulties to control and monitor data accuracy as well as to trace revision history

- The solution has to provide flexible interfaces to collect data, run validations, estimation, and calculations, and disseminate in line with the set of ESS in line with the Codification Database and Browser, published by the IMF as well as in line with the Standard Data Metadata Exchange (SDMX) utilized by Eurostat.

ESS Automation Project

Inventarization of all sources is a matrix of all sources, actual schema workflow used for statistical production and outputs.

ESS Automation Project

Future state

ESS Automation Project

1
- Initial Study Phase

2
- Design of the architecture

3
- Development of the components ending on the IT validation of the solution

4
- Implementation of the components ending on the functional validation of the solution

5
- Training of users and change management

6
- Opening the solution in production (Go Live)
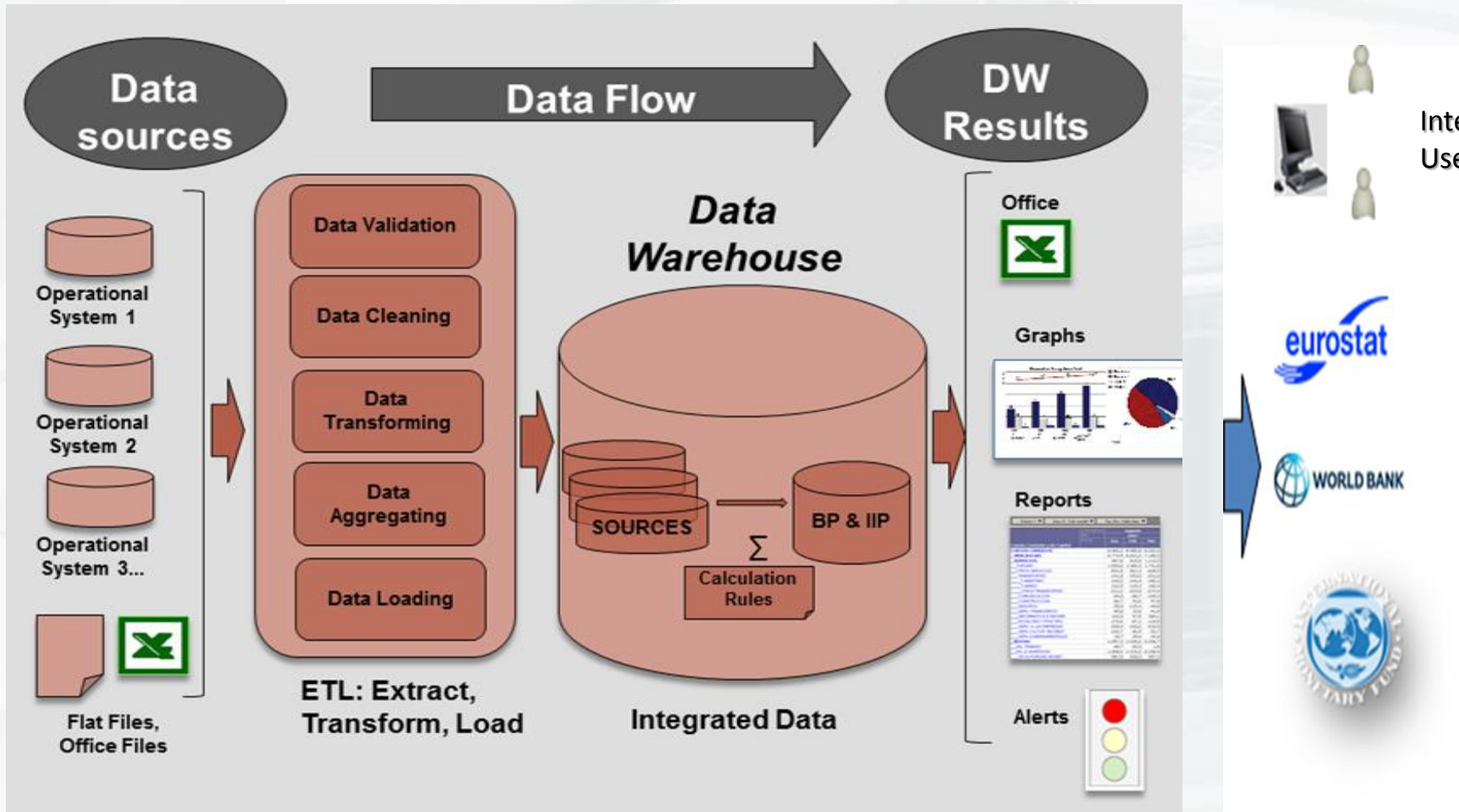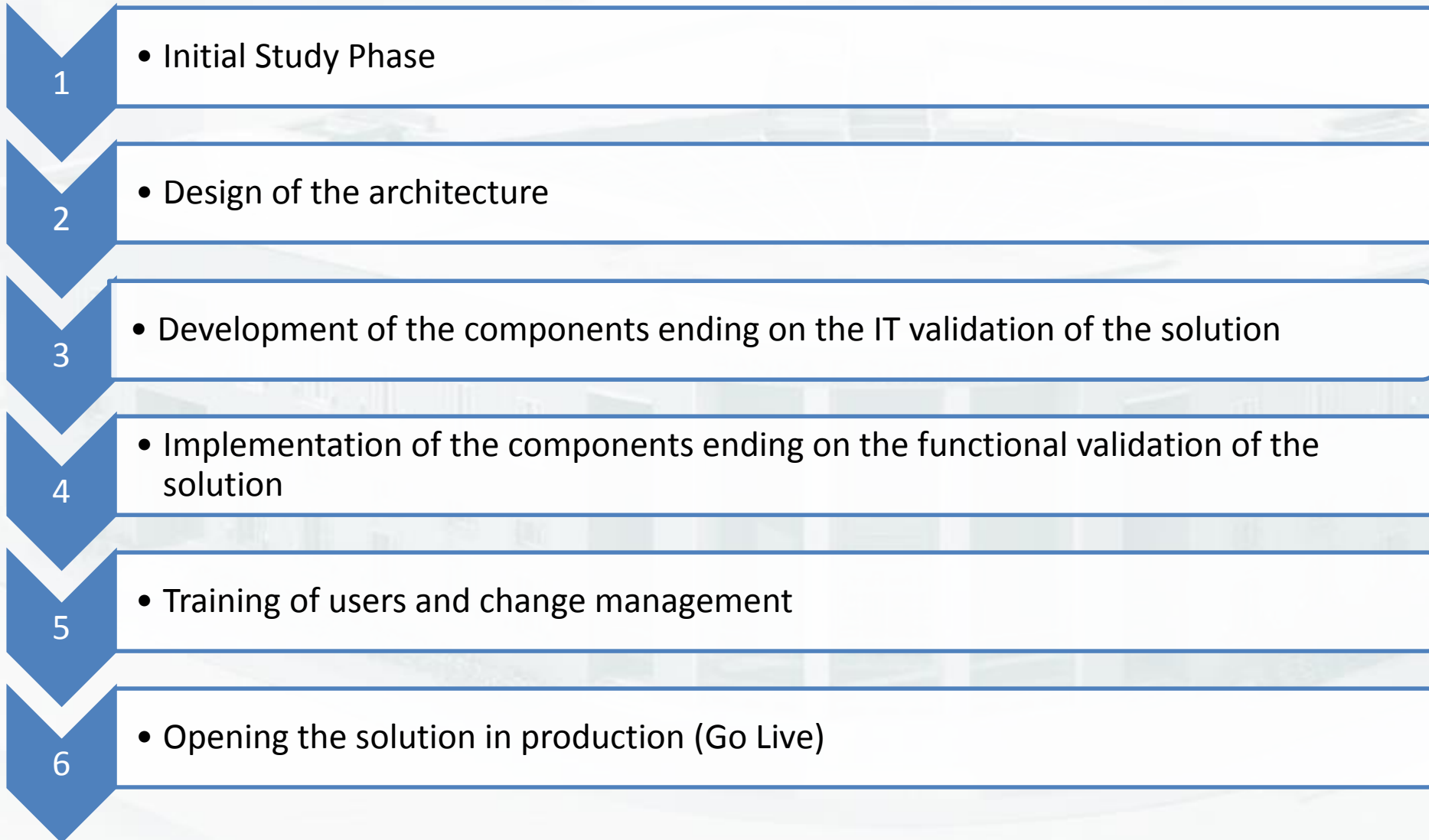
ESS Automation Project

To define the granularity of the data- Use of Eurostat codification (IMF-ESTAT conversion table)

The base for inputs

Balance of Payments, BPM6 Methodology				
		🟥 (red)	Additional items requested by the IMF	
Country Name:		🟨 (yellow)	Series requested only by Eurostat/ECB and not by the IMF (n	
		🟧 (orange)	Series requested by the ECB, on voluntary basis by Eurostat a	
Currency:	Domestic Currency	XDC		
Scale:	Million			
	Indicator	SDMX Code	Old Code	Code
BCA_BP6_XDC	Current account	Q.N.#.W1.S1.S1.T.B.CA._Z._Z._Z.$._T._X.N	109999.B.X.N	BCA_BP6_XDC
BXCA_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.CA._Z._Z._Z.$._T._X.N	109999.C.X.N	BXCA_BP6_XDC
BMCA_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.CA._Z._Z._Z.$._T._X.N	109999.D.X.N	BMCA_BP6_XDC
BGS_BP6_XDC	Goods and services	Q.N.#.W1.S1.S1.T.B.GS._Z._Z._Z.$._T._X.N	1Z9999.B.X.N	BGS_BP6_XDC
BXGS_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.GS._Z._Z._Z.$._T._X.N	1Z9999.C.X.N	BXGS_BP6_XDC
BMGS_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.GS._Z._Z._Z.$._T._X.N	1Z9999.D.X.N	BMGS_BP6_XDC
BG_BP6_XDC	Goods	Q.N.#.W1.S1.S1.T.B.G._Z._Z._Z.$._T._X.N	1A9999.B.X.N	BG_BP6_XDC
BXG_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.G._Z._Z._Z.$._T._X.N	1A9999.C.X.N	BXG_BP6_XDC
BMG_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.G._Z._Z._Z.$._T._X.N	1A9999.D.X.N	BMG_BP6_XDC
BGM_BP6_XDC	General merchandise on a balance of payments basis	Q.N.#.W1.S1.S1.T.B.G1._Z._Z._Z.$._T._X.N	1AA000.B.X.N	BGM_BP6_XDC
BXGM_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.G1._Z._Z._Z.$._T._X.N	1AA000.C.X.N	BXGM_BP6_XDC
BMGM_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.G1._Z._Z._Z.$._T._X.N	1AA000.D.X.N	BMGM_BP6_XDC
BGMZ_BP6_XDC	Of which Re-exports (credit)	Q.N.#.W1.S1.S1.T.C.G1Z._Z._Z._Z.$._T._X.N	1AA00Z.C.X.N	BGMZ_BP6_XDC
BXGT_BP6_XDC	Net exports of goods under merchanting (credit)	Q.N.#.W1.S1.S1.T.C.G2._Z._Z._Z.$._T._X.N	1AB000.C.X.N	BXGT_BP6_XDC
BXXGT_BP6_XDC	Goods acquired under merchanting (negative credit)	Q.N.#.W1.S1.S1.T.C.G21._Z._Z._Z.$._T._X.N	1AB100.C.X.N	BXXGT_BP6_XDC
BXMGT_BP6_XDC	Goods sold under merchanting (credit)	Q.N.#.W1.S1.S1.T.C.G22._Z._Z._Z.$._T._X.N	1AB200.C.X.N	BXMGT_BP6_XDC
BGN_BP6_XDC	Nonmonetary gold	Q.N.#.W1.S1.S1N.T.B.G3._Z._Z._Z.$._T._X.N	1AC000.B.X.N	BGN_BP6_XDC
BXGN_BP6_XDC	Credit	Q.N.#.W1.S1.S1N.T.C.G3._Z._Z._Z.$._T._X.N	1AC000.C.X.N	BXGN_BP6_XDC
BMGN_BP6_XDC	Debit	Q.N.#.W1.S1.S1N.T.D.G3._Z._Z._Z.$._T._X.N	1AC000.D.X.N	BMGN_BP6_XDC
BS_BP6_XDC	Services	Q.N.#.W1.S1.S1.T.B.S._Z._Z._Z.$._T._X.N	1B9999.B.X.N	BS_BP6_XDC
BXS_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.S._Z._Z._Z.$._T._X.N	1B9999.C.X.N	BXS_BP6_XDC
BMS_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.S._Z._Z._Z.$._T._X.N	1B9999.D.X.N	BMS_BP6_XDC
BSM_BP6_XDC	Manufacturing services on physical inputs owned by others	Q.N.#.W1.S1.S1.T.B.SA._Z._Z._Z.$._T._X.N	1BA000.B.X.N	BSM_BP6_XDC
BXSM_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.SA._Z._Z._Z.$._T._X.N	1BA000.C.X.N	BXSM_BP6_XDC
BMSM_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.SA._Z._Z._Z.$._T._X.N	1BA000.D.X.N	BMSM_BP6_XDC
BSMR_BP6_XDC	Goods for processing in reporting economy	Q.N.#.W1.S1.S1.T.B.SAy._Z._Z._Z.$._T._X.N	1BA100.B.X.N	BSMR_BP6_XDC
BXSMR_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.SAy._Z._Z._Z.$._T._X.N	1BA100.C.X.N	BXSMR_BP6_XDC
BMSMR_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.SAy._Z._Z._Z.$._T._X.N	1BA100.D.X.N	BMSMR_BP6_XDC
BSMA_BP6_XDC	Goods for processing abroad	Q.N.#.W1.S1.S1.T.B.SAz._Z._Z._Z.$._T._X.N	1BA200.B.X.N	BSMA_BP6_XDC
BXSMA_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.SAz._Z._Z._Z.$._T._X.N	1BA200.C.X.N	BXSMA_BP6_XDC
BMSMA_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.SAz._Z._Z._Z.$._T._X.N	1BA200.D.X.N	BMSMA_BP6_XDC
BSR_BP6_XDC	Maintenance and repair services n.i.e.	Q.N.#.W1.S1.S1.T.B.SB._Z._Z._Z.$._T._X.N	1BB000.B.X.N	BSR_BP6_XDC
BXSR_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.SB._Z._Z._Z.$._T._X.N	1BB000.C.X.N	BXSR_BP6_XDC
BMSR_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.SB._Z._Z._Z.$._T._X.N	1BB000.D.X.N	BMSR_BP6_XDC
BSTR_BP6_XDC	Transport	Q.N.#.W1.S1.S1.T.B.SC._Z._Z._Z.$._T._X.N	1BC000.B.X.N	BSTR_BP6_XDC
BXSTR_BP6_XDC	Credit	Q.N.#.W1.S1.S1.T.C.SC._Z._Z._Z.$._T._X.N	1BC000.C.X.N	BXSTR_BP6_XDC
BMSTR_BP6_XDC	Debit	Q.N.#.W1.S1.S1.T.D.SC._Z._Z._Z.$._T._X.N	1BC000.D.X.N	BMSTR_BP6_XDC

The outputs

USERS	Outputs
CEFTA	12
EUROSTAT	11
IMF	31
UN	6
WB	10
Website	10
Other users	4

ESS Automation Project

All working files were converted in rules. The transformation of input files from data sources to the final code-ready to use for outputs

INPUT	Description of information	Frequency	
MTO-IN	Money transfers by country	Monthly	
MTO-OUT	Money transfers by country	Monthly	
ITRS	Individual transactions	Monthly	
Input coefficien	expert judgement		
Form survey	1000 questionnaires migrant survey	Semiannually	Gjate perpunimit te pyetesoreve
Ex rate		Monthly and semiannually	Sheet " survey results" te jete nj
RULE1	Rule_Name	Rule_Formula	Remarks
	Conversion of Information in unic	Sum total Monedha (MTO-IN *Monthly Ex rate versus Euro)	
RULE2	Rule_Name	Rule_Formula	Remarks
	Conversion of Information in unic	Sum total (MTO-OUT *Monthly Ex rate versus Euro)	
RULE3	Rule_Name	Rule_Formula	Remarks
	Migrants transfers(Version 1)	SUM (Output Rule1, filter MTO-IN, between individuals) *Input coefficient migrants transfers	by country
RULE4	Rule_Name	Rule_Formula	Remarks
	Migrants transfers (Version 2)	SUM (Output Rule1, filter MTO-IN, between individuals) = up to 300 Euro	by country
RULE5	Rule_Name	Rule_Formula	Remarks
	Personal transfers by MTO	SUM (Output Rule1, filter MTO-IN, between individuals) - Output Rule 3 (or Output Rule 4)	by country
RULE6	Rule_Name	Rule_Formula	Remarks
	Personal transfers by MTO	SUM (Output Rule1 MTO-OUT, between individuals)	by country
RULE7	Rule_Name	Rule_Formula	Remarks
	Other business services n.i.e.	SUM (Output Rule1 MTO-IN, else than between individuals)	by country
RULE8	Rule_Name	Rule_Formula	Remarks
	Other business services n.i.e.	SUM (Output Rule1 MTO-OUT, else than between individuals)	by country
RULE9	Rule_Name	Rule_Formula	Remarks
	Migrants transfers	SUM (ITRS) group by description code " remittances +financial aid" filter inflow converted in euro by mont	by country
RULE10	Rule_Name	Rule_Formula	Remarks
	total money remitted in euro	Input (Formsurvey Q.5) / average semiannually Ex rate versus Euro)	by each questionnaires
RULE11	Rule_Name	Rule_Formula	Remarks
	Total money remitted by Cash1	Input Formsurvey (Q6.1) as frequency of remmittances*value of money remmited/avg semiannually ex r	by each questionnaire
RULE12	Rule_Name	Rule_Formula	Remarks
	Total money remitted by Cash2	Input Formsurvey (Q6.2) as frequency of remmittances*value of money remmited/avg semiannually ex r	by each questionnaire
RULE13	Rule_Name	Rule_Formula	Remarks
	Total money remitted by Banks	Input Formsurvey (Q6.3) as frequency of remmittances*value of money remmited/avg semiannually ex r	by each questionnaire
RULE14	Rule_Name	Rule_Formula	Remarks
	Total money remitted by MTO	Input Formsurvey (Q6.4) as frequency of remmittances*value of money remmited/avg semiannually ex r	by each questionnaire
RULE15	Rule_Name	Rule_Formula	Remarks
	Percentage of cash by country	Output (Rule11+ Rule 12)/ Output (Rule 10)	by country
RULE16	Rule_Name	Rule_Formula	Remarks
	Count of cash by country	Count of Output (Rule11+ Rule 12)	by country
RULE17	Rule_Name	Rule_Formula	Remarks
	Average Percentage of cash	Output (Rule11+ Rule 12)/ Output (Rule 10)	in total
RULE18	Rule_Name	Rule_Formula	Remarks
	Imputation of percentage of cash	If Output Rule15 (Count of Cash is =>30, than Sum of (Output Rule3+Output Rule9)*Output Rule15/(1-Out	by country
RULE19	Rule_Name	Rule_Formula	Remarks
	total migrants transfers by countr	Output Rule3+ Output Rule18	by country
RULE20	Rule_Name	Rule_Formula	Remarks
	Personal transfers	Output Rule5+ Output Rule19	by country

Rule ID	Destination Table	FREQ	ADJUST MENT	REF_AR EA	COUNTERP ART_AREA	REF_SE CTOR	COUNT ERPART _SECTO	FLOW_S TOCK_E NTRY	ACCOU NTING_ ENTRY	INT_AC C_ITEM
RULE19	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	C	D752W
RULE5	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	C	D752O
RULE6	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	D	D752O
RULE7	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	C	SJ35Z
RULE8	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	D	SJ35Z
Rule20	A-ITSS-eurostat	M	N	AL	COUNTRY_ID	S1W	S1	T	C	D752

ESS Automation Project

Codification of all inputs according to Data Model developed by the IT company and to be ready for the system

Table Level Setting	Values	Description									
Table Name	ITRS_FAC_F1_F2	Physical table name (use square brackets as necessary)				Back to Index					
Table Type	Fact	Dimension, Fact, Audit, or Utility				Home Page					
Table View	Input	Reference, Mapping, Input, Calculation									
Display Name	Client Transactions (F1 and F2 ITRS	Display or business name of the table (if this does not match the Worksheet name, the diagram links will not work)									
Database Schema	STG	Schema name for this table (you must create the schema in the database first - leave blank for default)									
Table Description	Client Transactions (F1 and F2 ITRS	Brief description of the contents of this table									
Used In Models		List of business process dimensional models using this table									
Generate Script?	N	Y or N									

						Target					
Column Name	Display Name	Description	Datatype	Size	Precision	Key?	FK To	NULL?	Default Value	Example Values	Comments
Extended Property?	Y	Y					Y			Y	Y
SID	SID	SID of record	bigint			PK		N		1,23	
BANK_NAME	Bank name		varchar	140							
ORDERING_CUSTOMER_CODE	Ordering Customer Code		varchar	140							
ORDERING_CUSTOMER_NAME	Ordering Customer Name		varchar	140							
ORDERING_COUNTRY_CODE	Ordering Country Code		varchar	140		FK	DWHL2.REF_DIM_COUNTRY.SID				
CURRENCY_CODE	Currency Code		varchar	140		FK	DWHL2.REF_DIM_CURRENCY.SID				
ORIGINAL_CURRENCY_VALUE	Original Currency Value		decimal	21	4						
LOCAL_CURRENCY_VALUE_MLN	Local Currency Value in MLN		decimal	21	4						Calculation - Convert to ALL (Average Monthly Rate) and MLN (divide by 1000000)
BENEFICIARY_CODE	Beneficiary Code		varchar	140							
BENEFICIARY_CUSTOMER_NAME	Beneficiary Customer Name		varchar	140							
BENEFICIARY_COUNTRY_CODE	Beneficiary Country Code		varchar	140		FK	DWHL2.REF_DIM_COUNTRY.SID				
ORIGINAL_DESCRIPTION_TRANSACTION	Original description of transaction		varchar	899							
TRANSACTION_DESCRIPTION	Transaction description		varchar	899		FK	DWHL2.REF_DIM_ITRS_TRANS_CODE.SID				
TRANSACTION_CODE	Transaction Code		varchar	140							
BOA_TRANSACTION_DESCRIPTION	BOA Transaction Description		varchar	899		FK	DWHL2.REF_DIM_ITRS_TRANS_CODE.SID				
BOA_TRANSACTION_CODE	BOA Transaction Code		varchar	140							Mapping - TRANSACTION_CODE.REF_DIM_ITRS_TRANS_CODE
TRANSACTION_TYPE	Type of transaction		varchar	140							
TRANSACTION_DATE	Transaction Date		datetime								
SOURCE	Transaction Source		varchar	140							
INITIAL_STATUS	Initial Status										
ENDING_STATUS	Ending Status		varchar	140							From Flow - Ending Status

ESS Automation Project

Testing inputs, Upload and Validation, Correction based on warnings and errors on reference tables

ESS Automation Project

Calculation and intermediate Output control

ESS Automation Project

Visualization of reports

Business continuity considerations

- *Routine dissemination of official statistics will be impacted.*
- *Compilers of official statistics will need to take extra steps to ensure that user confidence in official statistics is not affected.*
- *Users need to be assured that every effort has been made to compile reliable statistics based on the available data, and that any data gaps have been addressed using appropriate and accepted methodologies that ensure the compilation of reliable data.*
- *Complete transparency is critical at all times, but especially during this challenging period.*
- *Make better use of existing data.*
- *Leveraging on innovation: a) integrating supplementary data, b) accelerate the production of official statistics.*
- *Enhance data sharing and cooperation among statistical agencies.*
- *Improved platforms to exchange international experience/methodology.*

Thank you for your attention!

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