

ECONOMY AND FINANCE

THEME 2 - 10/2001

NATIONAL ACCOUNTS

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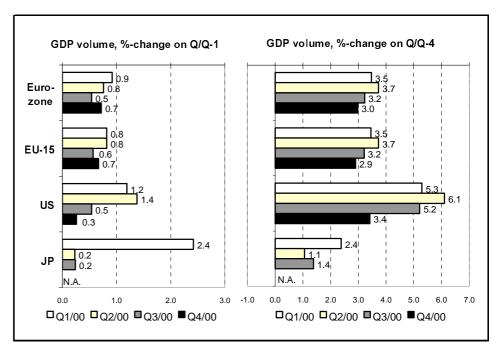
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QUARTERLY ACCOUNTS

Fourth Quarter 2000

Expenditure and Output approach
First Eurostat estimates

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Euro-zone(¹) and **EU15** GDP both grew by 0.7% during the fourth quarter of 2000, compared to the previous quarter, according to first estimates(²) from **Eurostat**. These figures follow a rise of 0.5% and 0.6% respectively for the **euro-zone** and the **EU15**, in the third quarter of 2000.

Compared to the fourth quarter of 1999, GDP rose by 3.0% in the **euro-zone** and by 2.9% in the **EU15** (+3.2% in both areas in the third quarter).

During 2000, the economy of the **euro-zone** and of the **EU15** increased by 3.4% and 3.3% respectively, compared to an annual GDP growth rate of 2.5% for the year 1999.

The **US** economy grew by 0.3% in the fourth quarter of 2000 (+0.5% in the previous quarter). Compared to the fourth quarter of 1999, GDP grew by 3.4% whilst during 2000, the **US** economy recorded a 5.0% growth compared to 1999.

⁽¹⁾ Methodological note: data for euro-zone and EU15 are calculated within a coherent and consistent statistical framework using as indicators the available data from the Member States. Given that certain Member States have not published their quarterly accounts yet, and that certain data are provisional, euro-zone and EU15 data must also be considered as provisional. Revisions are likely in the coming weeks.

⁽²⁾ The euro-zone consists of the following countries: Belgium, Germany, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal and Finland. Greece will be included in the calculation of the euro-zone starting from the publication covering the first quarter 2001.

DEVELOPMENT OF THE GDP AND ITS COMPONENTS

Expenditure components of the GDP Euro-zone, EU15 and USA

As far as the expenditure side of the GDP is concerned, exports recorded acceleration in the **euro-zone** and the **EU15**, growing by 3.3% and 3.1%, respectively, as did imports, with rates of 3.2% and 2.8%, respectively. investment slowed markedly (+0.4% and +0.5%, respectively). Growth in final consumption expenditure of households, on the other hand, was slightly up to 0.3% in the **euro-zone** and 0.4% in the **EU15**.

The largest contributions to GDP growth were those of exports (+1.3 and +1.2 of GDP variation for the euro-zone and the EU15, respectively) and *imports* (-1.1 and -1.0 of GDP variation, respectively), resulting in a +0.2 contribution of the external balance in both zones. A contribution of about the same magnitude was made by the *final consumption expenditure of households*.

In the **United States**, *household consumption* grew by 0.7%. *Investments* however slowed down to 0.2%.

Exports markedly dropped by -1.6%, as did, to a lesser extent, *imports* (-0.2%).

Output components of the GDP Euro-zone and EU15

During the fourth quarter of 2000, **total gross value added** rose by 0.7 % both in the **euro-zone** and in the **EU15**. Compared to the fourth quarter of 1999 the **total gross value added** grew by 3.2% and 3.1%, respectively.

Concerning the production branches, *trade, transport* and communication recorded the highest quarterly output growth (1.3% in both areas), followed by *financial* services and business activities (+0.9% growth in both areas). Agriculture, hunting and fishing showed the lowest growth during the fourth quarter of 2000, dropping at -0.1% and -0.4%, respectively.

These figures resulted into *trade, transport and communication* being the branch with the highest contribution to GDP growth (0.3 of the GDP variation for both zones), with *financial services and business activities* just behind (0.2 of GDP variation).

	GDP and main components - F	ourth quarter 2000	
GDP	4th Quarter 2000	growth compared to 3rd quarter 2000	growth compared to 4th quarter 1999
Euro-zone	1 514 234.3	0.7	3.0
EU-15	1 883 675.3	0.7	2.9
US	1 761 037.2	0.3	3.4
JP	:	:	:
Domestic Demand	4th Quarter 2000	growth compared to 3rd quarter 2000	growth compared to 4th quarter 1999
Euro-zone	1 478 997.8	0.6	2.5
EU-15	1 857 397.5	0.5	2.6
US	1 848 409.0	0.4	4.3
JP	:	:	:
External Balance	4th Quarter 2000	Percentag (seasonally	
Euro-zone	35 236.5	2.	.3
EU-15	26 277.7	1.	.4
US	- 87 371.7	-5	.0
JP	:	:	:
Gross Value Added	4th Quarter 2000	growth compared to 3rd quarter 2000	growth compared to 4th quarter 1999
Euro-zone	1 418 198.5	0.7	3.3
EU-15	1 759 867.8	0.7	3.1
US	:	:	:
JP	:	:	:

[:] Data not available.





GROWTH RATE OF GDP AND EXPENDITURE COMPONENTS

<u>t/t-1</u>	PER	CEN	TAGI	E CH	ANGE	OV	ER P	REVI	ous	QUA	RTE	₹ - S	EASC	NAL	LY A	DJU	STED	- IN '	/OLI	JME																
		GI	DΡ		C	onsur	old fir nptio diture	n	С	ernm onsur expen	nptio	า	Gros	s Fixe Form				Chan vento	_		Dom	nestic	: Dem	and		Ехр	orts			Imp	orts		Exte	rnal E	Baland	ce (1)
		20	000			20	00			20	00			200	00			200	00			20	00			20	00			20	000			20	000	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE	0.9	0.8	0.5	0.7	0.8	8.0	0.2	0.4	0.6	0.3	0.1	0.6	1.8	0.6	1.1	0.4	0.2	0.4	0.5	0.6	0.6	0.8	0.4	0.6	3.0	2.0	2.8	3.3	2.2	2.3	2.6	3.2	2.2	2.1	2.2	2.3
EU-15	0.8	0.8	0.6	0.7	0.8	8.0	0.3	0.4	0.4	0.4	0.2	0.5	1.6	0.7	1.1	0.5	0.1	0.4	0.4	0.5	0.6	0.9	0.5	0.5	2.6	2.1	2.5	3.1	2.0	2.5	2.4	2.8	1.3	1.2	1.3	1.4
US	1.2	1.4	0.5	0.3	1.8	8.0	1.1	0.7	-0.9	1.9	-0.5	0.1	3.6	2.1	0.6	0.2	0.7	1.1	1.1	1.0	1.4	1.6	8.0	0.4	1.5	3.4	3.3	-1.6	2.9	4.3	4.0	-0.2	-4.3	-4.6	-4.8	-5.0
JP	2.4	0.2	0.2	:	2.0	0.1	0.0	:	1.0	1.2	0.5	;	2.2	-0.7	1.3	:	-0.1	0.0	-0.1	:	2.0	0.1	0.3	:	4.4	4.0	0.0	:	0.4	3.9	1.1	:	2.5	2.6	2.6	:

⁽¹⁾ Percentage of GDP: Data not available

T2 GROWTH RATE OF GDP AND EXPENDITURE COMPONENTS

t/t-4 PERCENTAGE CHANGE OVER THE SAME QUARTER OF THE PREVIOUS YEAR - SEASONALLY ADJUSTED - IN VOLUME

		GE	P			lousehomption			Go consu		nent fina expen		Gro	ss Fixe Form	ed Cap ation	oital	Do	mestic	Dema	nd		Exp	orts			Imp	orts	
		200	00			20	00			20	00			20	00			20	00			20	00			20	00	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE	3.5	3.7	3.2	3.0	2.6	3.1	2.4	2.1	1.7	1.8	1.4	1.6	5.7	4.9	4.0	3.9	2.6	3.2	2.8	2.5	12.8	11.4	11.2	11.6	10.5	10.1	10.2	10.7
EU-15	3.5	3.7	3.2	2.9	2.8	3.2	2.7	2.2	1.6	1.8	1.4	1.6	5.4	4.8	4.3	4.0	2.7	3.4	3.0	2.6	12.0	10.9	10.1	10.8	9.8	10.2	9.7	10.1
US	5.3	6.1	5.2	3.4	6.0	5.4	5.3	4.5	1.7	3.7	2.0	0.6	9.9	10.0	8.7	6.6	6.2	6.9	6.0	4.3	8.1	10.2	11.2	6.8	13.9	14.5	14.5	11.5
JP	2.4	1.1	1.4	:	1.8	0.0	-1.3	:	3.8	3.8	3.1	:	0.8	-0.9	4.3	:	1.9	0.4	1.0	:	12.2	14.6	11.7	:	8.5	10.4	9.4	;

[:] Data not available

T3 GDP AND EXPENDITURE COMPONENTS

FOURTH QUARTER 2000, MILLIONS OF EURO, AT CONSTANT PRICES 1995 levels

	GDP	Household final consumption expenditure	Government final consumption expenditure	Gross Fixed Capital Formation	Change in Inventories	Domestic Demand	Exports	Imports	External Balance
EURO-ZONE	1 514 234.3	844 912.0	294 369.4	330 134.6	9 581.9	1 478 997.8	590 377.1	555 140.6	35 236.5
EU-15	1 883 675.3	1 077 874.9	366 694.3	403 091.2	9 737.2	1 857 397.5	725 189.7	698 911.9	26 277.7
US	1 761 037.2	1 192 284.7	234 973.0	403 224.3	17 927.0	1 848 409.0	220 738.3	308 110.0	- 87 371.7
JP	:	:	:	:	:	:	:	:	:

[:] Data not available

GROWTH RATE OF GDP AND GROSS VALUE ADDED BY INDUSTRY

<u>t/t-1</u> PERCENTAGE CHANGE OVER PREVIOUS QUARTER - SEASONALLY ADJUSTED - IN VOLUME

		GD)P		_ ~		e, hun shing	٠ ا	Indu	stry, ir	ncl. En	iergy	C	Constr	uctior	١		,	nsport nicatio ices		Finar	ncial se siness			0	ther s	ervice	s		tal Gro Addeo		lue
		200	00			20	00			20	00			20	00			20	00			20	00			20	00			20	00	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE EU-15		-0.9 -0.7	1.7 1.2	-0.1 -0.4	1.6 1.2	0.8	0.9	0.3 0.1			-0.1 -0.4	0.4 0.4	1.5 1.4	1.1 1.1	0.5 0.6	1.3 1.3		0.8 1.0		0.9 0.9		0.2	0.3	0.4 0.4		0.6	0.8	0.7 0.7	0.8			0.7

[:] Data not available

T5 GROWTH RATE OF GDP AND GROSS VALUE ADDED BY INDUSTRY

<u>t/t-4</u> PERCENTAGE CHANGE OVER THE SAME QUARTER OF THE PREVIOUS YEAR - SEASONALLY ADJUSTED - IN VOLUME

		GI	ЭP				e, hunt shing	ting	Indus	stry, in	ıcl. En	ergy	C	Constr	uction	l			nsport nicatio rices		Finan bus	icial se siness			C	ther s	ervice	s		al Gro		lue
		20	00			20	00			20	00			200	00			20	00			20	00			20	00			200	00	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE EU-15		1.3 1.8	0.4	0.4 0.2		4.6 4.7	4.1 4.2	4.4 4.4	4.6 4.5	4.4 4.4	4.6 4.7	4.5 4.6		1.0 1.2		1.1 1.2	3.5 3.4		3.3 3.3	3.3 3.1	0.0		3.2	2.9 0.0	2.3	1.0	1.3	0.3 0.0		0.9	0.8	0.1 0.0

[:] Data not available

T6 GDP AND GROSS VALUE ADDED BY INDUSTRY

levels FOURTH QUARTER 2000, MILLIONS OF EURO, AT CONSTANT PRICES 1995

	GDP	Agriculture, hunting and fishing	Industry, incl. Energy	Construction	Trade, transport and communication services	Financial services and business activities	Other services	Total Gross Value Added (A6)	Taxes less subsidies on products	FISIM
EURO-ZONE EU-15										

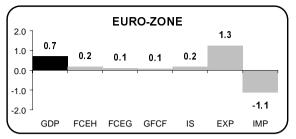
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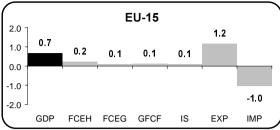
FISIM: Financial Intermediation Services Indirectly Measured

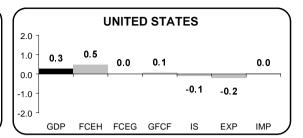


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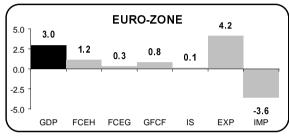
Contribution ⁽³⁾ of expenditure components to variation in GDP Q/Q-1 - Fourth Quarter 2000

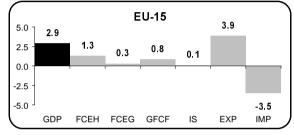


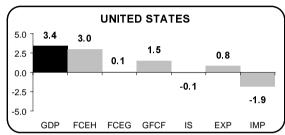




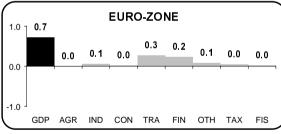
Q/Q-4 - Fourth Quarter 2000

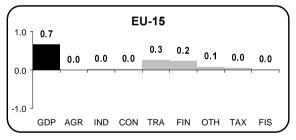


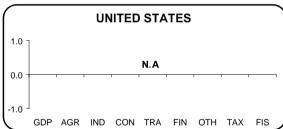




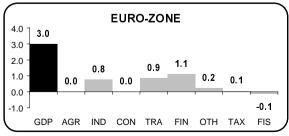
Contribution (3) of output components to GDP change Q/Q-1 - Fourth Quarter 2000

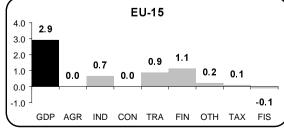


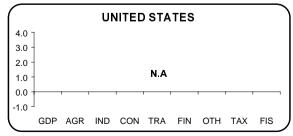




Q/Q-4 - Fourth Quarter 2000







⁽³⁾ Contributions to change in GDP are calculated by expressing absolute changes in components as a percentage of the GDP in the period referenced (q-1 or q-4, respectively). See the legend on page 7 for an explanation of the abbreviations used in the graphs.

T7

CONTRIBUTION OF EXPENDITURE COMPONENTS TO VARIATION IN GDP

t/t-1 GDP VARIATION OVER PREVIUOS QUARTER - SEASONALLY ADJUSTED - IN VOLUME

		GD	ıΡ		H consu		old fina expen				nent fina expen	-			ed Cap ation	ital	Chai	nge in I	Invento	ories		Exp	orts			Imp	orts	
		200	00			20	00			20	00			20	00			20	00			20	00			20	00	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE	0.9	0.8	0.5	0.7	0.5	0.4	0.1	0.2	0.1	0.1	0.0	0.1	0.4	0.1	0.2	0.1	-0.3	0.2	0.1	0.2	1.1	0.7	1.0	1.3	-0.8	-0.8	-0.9	-1.1
EU-15	0.8	8.0	0.6	0.7	0.4	0.4	0.2	0.2	0.1	0.1	0.0	0.1	0.3	0.2	0.2	0.1	-0.3	0.2	0.1	0.1	0.9	0.8	0.9	1.2	-0.7	-0.9	-0.9	-1.0
US	1.2	1.4	0.5	0.3	1.2	0.5	0.7	0.5	-0.1	0.3	-0.1	0.0	0.8	0.5	0.2	0.1	-0.4	0.5	0.0	-0.1	0.2	0.4	0.4	-0.2	-0.5	-0.7	-0.7	0.0
JP	2.4	0.2	0.2	:	1.1	0.1	0.0	:	0.2	0.2	0.1	:	0.6	-0.2	0.4	:	0.2	0.1	-0.1	:	0.5	0.4	0.0	:	0.0	-0.3	-0.1	:

GDP VARIATION OVER THE SAME QUARTER OF THE PREVIOUS YEAR - SEASONALLY ADJUSTED - IN VOLUME t/t-4 **EURO-ZONE** 1.5 1.5 1.8 1.4 1.2 0.3 1.2 0.8 0.2 4.3 3.9 4.2 -3.4 -3.3 EU-15 -3.2 -3.4 3.5 3.7 3.2 1.6 1.9 1.5 0.3 0.3 1.0 0.9 -0.4 0.2 0.3 3.8 3.6 -3.3 2.9 1.3 0.4 0.3 1.1 0.8 3.9 US 5.3 5.2 3.5 0.2 0.5 0.3 2.2 2.2 1.9 0.5 1.4 -2.1 -2.3 -2.3 3.0 1.5 -1.9 2.4 1.1 1.4 1.0 0.0 -0.7 0.6 0.6 0.5 0.2 -0.2 1.1 0.0 0.1 0.0 1.2 1.5 1.2 -0.7 -0.8 -0.8

T8 t/t-1

CONTRIBUTION OF GROSS VALUE ADDED BY INDUSTRY TO VARIATION IN GDP

GDP VARIATION OVER PREVIUOS QUARTER - SEASONALLY ADJUSTED - IN VOLUME

		GE	DΡ		Agric a	culture and fis			In	dustr Ene	•	el.	C	Const	ructio	n		ide, ti comm servi	nunic		ar	ncial nd bu activ	sines	s		her se	ervice	es		ubsic	s less lies oi lucts			FIS	IM	
		20	00			200	00			200	00			20	00			20	00			20	00			200	00			20	00			200	00	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
EURO-ZONE	0.9	0.8	0.5	0.7	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.1	0.1	-0.1	0.0	0.0	0.3	0.2	0.1	0.3	0.3	0.2	0.3	0.2	0.0	0.0	0.1	0.1	-0.1	0.3	-0.2	0.0	0.0	-0.1	0.0	0.0
EU-15	0.8	8.0	0.6	0.7	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.0	0.1	-0.1	0.0	0.0	0.3	0.2	0.1	0.3	0.3	0.2	0.3	0.2	0.0	0.1	0.1	0.1	-0.1	0.2	-0.1	0.0	0.0	-0.1	0.0	0.0

t/t-4 GDP variation over the same quarter of the previous year - in volume

							_					_																						
EURO-ZONE	3.5	3.7	3.2	3.0	0.1	0.0	0.0	0.0	1.0	1.0	0.9	0.8	0.2	0.1	0.0	0.0	0.8	0.9	0.8	0.9	1.1	1.1	1.1	1.1	0.2	0.2	0.2	0.2	0.4	0.7	0.3	0.1	-0.2 -0.2 -0	0.2 -0.1
EU-15	3.5	3.7	3.2	2.9	0.1	0.0	0.0	0.0	0.9	0.9	8.0	0.7	0.2	0.1	0.0	0.0	0.8	0.9	0.8	0.9	1.1	1.1	1.2	1.1	0.2	0.2	0.2	0.2	0.4	0.7	0.3	0.1	-0.2 -0.2 -0	0.2 -0.1

[:] Data not available

FISIM: Financial Intermediation Services Indirectly Measured



[:] Data not available

ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

Data are compiled in accordance with ESA 1995 Exports and imports (ESA 1995, 3.128 f.) of goods (European System of Accounts) which is described in Council Regulation No 2223/96 of 25. June 1995.

Gross Domestic Product (GDP) at market prices is the final result of the production activity of resident producer units. It may be compiled from different sources relating to different approaches:

Using the expenditure approach, GDP is obtained from the following equation:

GDP = Household final consumption expenditure

- + Government final consumption expenditure
- + Gross fixed capital formation
- + Change in inventories
- + Exports
- Imports.

first four components constitute domestic demand, the balance of the latter two, i.e. exports minus imports, is the external balance.

Final consumption expenditure (ESA 1995 3.75) is defined as expenditure on goods and services that are used for the direct satisfaction of individual or collective needs. The consumption expenditure may take place on the economic territory or abroad. Household final consumption expenditure entails the expenditure of non-profit institutions serving households (NPISH). Government final consumption expenditure includes the value of goods and services produced by general government itself other than own-account capital formation, and purchases by general government of goods and services produced by market producers that supplied to households — without transformation — as social transfers in kind.

Gross fixed capital formation (ESA 1995, 3.102) consists of acquisitions, less disposals, of fixed tangible or intangible assets.

Changes in inventories (ESA 1995, 3.117) are measured by value of the entries into inventories less the value of withdrawals and recurrent losses. Inventories include materials and supplies as well as work-in-progress and growing crops.

and services are transactions between residents and non-residents. They consist of sales, barters, gifts and grants. Imports and Exports of goods are valued free on board at the border of the exporting country (f.o.b.).

Using the output approach, GDP is obtained from the following equation:

GDP = Total Gross value added (A6)

- + Taxes less subsidies on products
- FISIM.

Gross value added (GVA) (ESA 1995, 8.11) is defined as the value of all newly generated goods and services less the value of all goods and services consumed as intermediate consumption. The depreciation of fixed assets is not taken into account. Gross value added is compiled by industry that creates it. Here, the A6 breakdown of the NACE Rev. 1 is used. This is the European classification of economic activities governed by Council Regulation 3037/90 of 9 October 1990. It should be noted that total gross value added, i.e. the sum of industries' GVA, still contains some intermediate consumption (FISIM, see below). GVA of a whole economy is therefore to be calculated as Total GVA minus FISIM.

When calculating value added, output is valued at basic prices and intermediate consumption at purchaser's prices, and thus the difference between taxes and subsidies on products has to be added to value added. Taxes less subsidies on products (ESA 1995, 9.47) are, in fact, a part of value added measured in the government accounts because of the different prices used. The GDP resulting from the above equation will then be valued at market prices.

FISIM (Financial Intermediation Services Indirectly Measured, ESA 1995, 8.14) is a kind of intermediate consumption paid to financial service providers via the interest margin, which cannot be allocated directly to individual customers as intermediate consumption, so value added is overestimated for the branches. FISIM is therefore normally considered to be intermediate consumption at the national economy level.

Legend:

GDP: **Gross Domestic Product**

Household final consumption expenditure FCEH: FCEG: Government final consumption expenditure

GFCF: Gross fixed capital formation IS: Changes in inventories

IMP: **Imports** EXP: **Exports**

External balance EB:

GVA: Gross Value Added

AGR: Agriculture, hunting and fishing IND: Industry, including energy

CON: Construction

TRA: Trade, transport and communication services FIN: business activities and financial services

OTH: Other services

TAX: Taxes less subsidies on products

FIS: **FISIM**



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