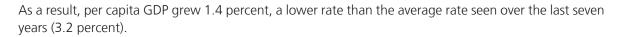
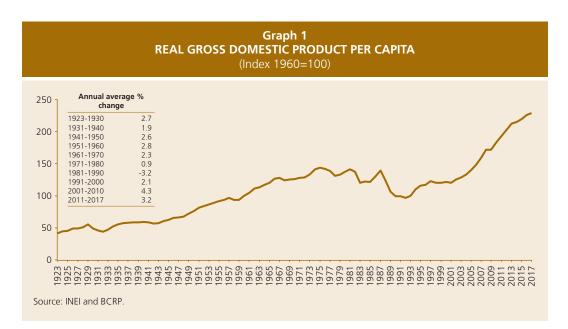
PRODUCTION AND EMPLOYMENT

After growing 4.0 percent in 2016, the Peruvian economy grew 2.5 percent in 2017, affected by two different negative shocks. The first shock was El Niño Costero, which devastated a significant part of infrastructure in the north of the country in the first quarter of the year, and the second was the corruption scandal of the Lava Jato case, which affected investor confidence and paralyzed public-private partnerships investment projects.

Domestic demand evidenced a weak economic cycle growing at a rate of 1.6 percent, a slightly higher rate than in the previous year (1.1 percent), but lower for four consecutive years than the GDP growth rate. After the reversal of the shocks that affected the economy at the beginning of the year (El Niño Costero and the Lava Jato case), mining investment and public spending began to show greater dynamism in the second half of the year, favored by the impulse of higher terms of trade. Private consumption, on the other hand, recorded its lowest growth rate since 2001.







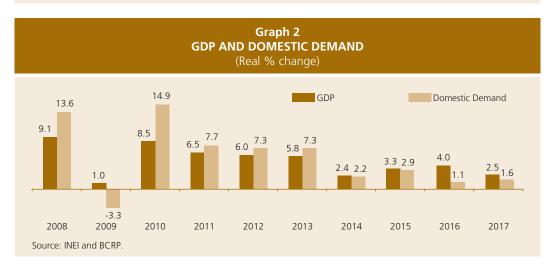
1. Domestic Demand

During 2017, the growth of domestic demand (1.6 percent) was offset both by the negative impact of El Niño Costero and by the paralysis of infrastructure projects brought about by the Lava Jato case. The latter affected the execution of important projects, such as the South Peruvian Gas Pipeline, Línea Amarilla, Vías Nuevas de Lima, the Chavimochic III irrigation project, the Belo Horizonte and Chadin II hydroelectric plants, as well as the Callao section of the Costa Verde, among other projects. This slow pace of growth in the first half of the year was in part offset by the impulse of higher terms of trade as well as by fiscal and monetary stimuli in the second half of the year.

Private investment, which was initially affected by the paralysis of large infrastructure projects, reversed the contraction it had been showing in the last three years, driven by the impact of higher terms of trade. Likewise, the contraction of public spending was also stopped by the recovery of consumption at the level of subnational governments. On the other hand, however, despite showing a gradual recovery since the second quarter of the year, private consumption failed to recover the growth rates of previous years, affected mainly by the negative wealth effect derived from El Niño Costero and the slow recovery of the labor market.

Table 1 GROSS DOMESTIC PRODUCT BY TYPE OF EXPENDITURE (Real % change)						
	2015	2016	2017	Average 2008-2017		
Domestic Demand a. Private consumption b. Public consumption c. Gross fixed investment - Private - Public Change on inventories (% nominal GDP)	2.9 4.0 9.8 -5.2 -4.2 -9.5 -0.4	1.1 3.3 -0.6 -4.7 -5.7 -0.2 -0.2	1.6 2.5 1.0 -0.3 0.3 -2.3 -0.2	5.4 5.5 5.9 5.9 5.6 7.2 -0.3		
Exports	4.0	9.5	7.2	3.8		
Minus: Imports	2.4	-2.2	4.0	5.6		
GDP	3.3	4.0	2.5	4.9		
Memo: Total public expenditure	3.6	-0.5	0.1	6.2		

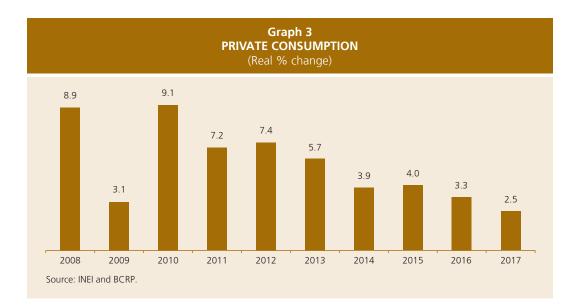
Source: INEI and BCRP.



1.1 Private Consumption

Consumption expenditure in the private sector grew 2.5 percent in 2017–a lower rate than in 2016 (3.3 percent)–, reflecting in part the impact of El Niño Costero, which affected labor-intensive activities such as trade, services, and construction. In line with this, most indicators, i.e. employment, wage bill, confidence, and retail sales showed a significant deterioration in comparison with the levels observed in 2016. Moreover, unemployment in Metropolitan Lima increased slightly while consumer loans –in real terms– continued to slow down compared to their growth rates in previous years. In contrast, imports of consumer durables grew after having shown negative rates in the previous years.

Table 2INDICATORS OF PRIVATE CONSUMPTION(% change respect to the similar month of previous year)						
2015 2016 2017						
Occuped EAP in Metropolitan Lima	1.0	1.8	1.5			
Real wage bill in Metropolitan Lima	2.4	3.0	-0.7			
Metropolitan Lima unemployment rate	6.5	6.8	6.9			
Consumer Confidence Index Apoyo	61	64	61			
Index of expectations about household situation 12-month ahead	68	65	64			
Real consumer loans	9.6	7.1	5.2			
Retail sales	3.5	2.1	0.6			
Imports of consumer goods	-0.7	-3.2	5.0			
Non-durable	1.8	-4.2	4.6			
Durable	-5.3	-3.0	2.2			



1.2 Private Investment

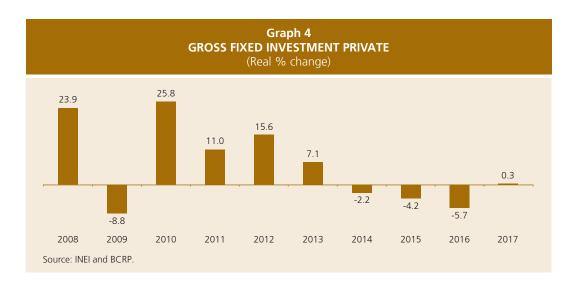
After recording negative rates for three consecutive years, private investment registered a recovery of 0.3 percent in 2017, reflecting the increase in mining investment (12.3 percent) associated with the higher prices of our export products (13.1 percent). On the other hand, investment in the non-mining

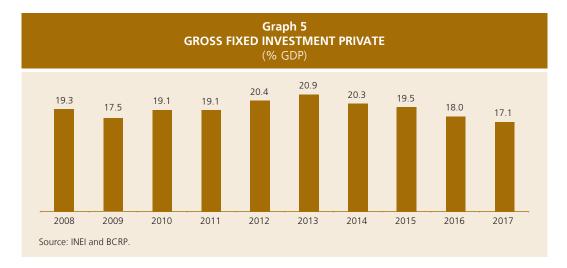


sectors showed a contraction of 1.0 percent. Uncertainty and the effects derived from corruption cases affected the evolution of several projects.

Table 3 MINING AND NO MINING INVESTMENT (Real % change)					
	2015	2016	2017		
Mining investment	-11.2	-50.8	12.3		
No mining investment Total private investment	-2.9 -4.2	2.2 -5.7	-1.0 0.3		

Source: MINEM, BCRP.





Despite this unfavorable context for the development of a group of projects, investment increased in some sectors, particularly in the sectors of mining, hydrocarbons, electricity, and the industrial sector. Some of these investment projects are described below.

In 2017, investments in the mining sector amounted to US\$ 3.9 billion. Southern Peru invested a total of US\$ 673 million in the completion of the expansion works for the operations of its copper mine in

Tacna and in additional projects: US\$ 343 million was invested in the expansion of Toquepala, which reached an implementation level of 87 percent and is estimated to be completed in the second quarter of 2018. Additional projects developed by the company that were completed in December 2017 include, for example, the implementation of a high pressure grinding roller system in Toquepala, optimizing the management of heavy mineral ore in Cuajone, and implementing tailing thickeners in the Cuajone concentration plant. On the other hand, Antapaccay invested US\$ 532 million mainly in its exploitation and tailings processes.

In the hydrocarbons sector, Repsol invested US\$ 183 million mainly to adapt its fuel to the New Fuel Specifications of La Pampilla Refinery" (RLP-21).

In the electricity sector, the Thermal Power Plant of Santo Domingo de los Olleros (steam turbinecombined cycle) continued to be developed, while the implementation of the 200 Kv Moyobamba - lquitos Transmission Line was paralyzed by conflicts with some communities. At end 2017, these projects show an advance of 98 and 17 percent, respectively. Moreover, Luz del Sur invested US\$ 138 million in expanding the capacity and making improvements in the electricity grid, while Edelnor invested US\$ 73 million in the electricity distribution grids (expansion and reinforcement of grids to meet the requirements of residential, commercial, and industrial users), US\$ 29 million in subtransmission infrastructure (expansion and security of substations and transmission lines), US\$ 5.2 million in electrification in some human settlements, and US\$ 2 million in the improvement of public lighting.

In the industrial sector, Gloria made investments for a total of US\$ 101 million, mainly to improve its dairy production plant in Huachipa; Union de Cervecerías Peruanas Backus y Johnston invested US\$ 59 million to expand the capacity of breweries, distribution centers, their stock of plastic boxes and glass containers, and transport units, while Unión Andina de Cementos invested US\$ 39 million, mainly in the Carpapata III Hydroelectric Power Plant, improving the power plant infrastructure, and in maintenance of the Atocongo and Condorcocha plants.

1.3 Public Expenditure

Showing some recovery in comparison with the decline observed in 2016 (0.5 percent), public spending grew 0.1 percent in 2017. This recovery is explained by higher public consumption, whereas public investment, on the other hand, continued declining.

Consumption expenditure grew 1.0 percent as a result of the increased resources allocated to the maintenance of channels, drainage systems, and physical security structures established to face disaster hazards as part of the reconstruction projects initiated in response to the disasters caused by El Niño Costero.

Public investment fell 2.3 percent in 2017. This fall resulted from a strong contraction of investment during the first two quarters of the year (mainly due to El Niño Costero in the first quarter of 2017) and from a gradual recovery of government investment thereafter which reflected subnational governments' higher expenditure in projects aimed to improve and expand potable water and sewerage systems, road and educational infrastructure projects, and a gradual increase of expenditure for the reconstruction plan and the implementation of the infrastructure projects for the Pan American Games.

1.4 Exports and Imports

Exports of goods and services grew 7.2 percent in 2017, less than in the previous year (9.5 percent), this slowdown reflecting mainly the reduction in the growth rate of exports of copper (down from 41.8

in 2016 to 4.7 percent in 2017) and coffee (down from 30.0 to 1.9 percent). On the other hand, non-traditional exports showed greater dynamism than in 2016, as reflected mainly in exports of agricultural products, fisheries, and textiles in a context of recovery of external demand.

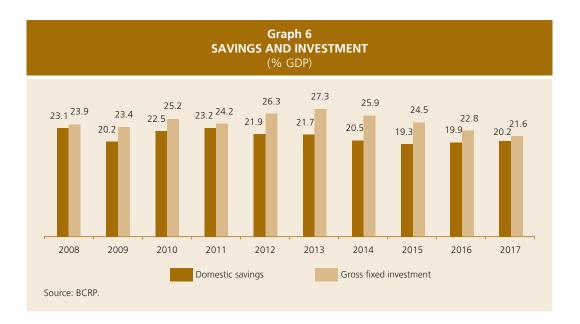
Imports of goods and services increased 4.0 percent (versus a fall of 2.2 percent in 2016), favored by a context marked by an acceleration of domestic demand due to the recovery of private investment and a greater demand for inputs.

1.5 Saving and Investment

In 2017, domestic investment fell by 1.2 percentage points (from 22.6 to 21.4 percent of GDP), mainly due to the private component. Together with the slight improvement in domestic saving (mainly private investment), this decline in investment translated into a lower current account deficit, which fell from 2.7 to 1.3 percent of GDP.

Table 4 SAVINGS AND INVESTMENT (% nominal GDP)						
		2015	2016	2017	Average 2008-2017	
I.	Invesment (=II+III)	24.1	22.6	21.4	24.0	
	Gross fixed investment	24.5	22.8	21.6	24.3	
	Public investment	5.0	4.8	4.5	5.2	
	Private fixed investment	19.5	18.0	17.1	19.1	
	Change on inventories	-0.4	-0.2	-0.2	-0.3	
П.	Domestic savings	19.3	19.9	20.2	21.1	
	Public sector	3.8	2.7	1.8	5.5	
	Private sector	15.6	17.2	18.4	15.6	
Ш.	External savings	4.8	2.7	1.3	3.0	

Source: BCRP.



2. Economic Sectors

On the side of production sectors, the lower growth of the output during 2017 (2.5 percent versus 4.0 percent in 2016) is mainly explained by the slowdown of activity in the primary sectors. The sector of metal mining recorded a growth rate of 4.2 percent after having grown 21.2 percent in 2016, as a result of which its marginal contribution to GDP fell significantly. This was particularly noteworthy in a context of delay in the start of new projects.

On the other hand, non-primary sectors registered the same growth rate as in the previous year (2.4 percent). These sectors initially showed a period of low growth as a result of the shocks observed in the first months of the year, but the recovery of private investment and public spending boosted domestic demand during the second half of the year after the effects of the shocks subsided. The recovery of the construction sector is worth highlighting since this sector grew 2.2 percent after two years of contraction. In contrast, affected mainly by the events associated with El Niño Costero, the sectors of commerce and services failed to recover the dynamism they showed in the previous years. Likewise, non-primary manufacturing recorded its fourth consecutive year of contraction (-0.9 percent), even though it was lower than in previous years.

Table 5 GROSS DOMESTIC PRODUCT BY ECONOMIC SECTOR 1/ (Real % change)						
	2015	2016	2017	Average 2008-2017		
Agriculture and livestock 2/	3.5	2.7	2.6	3.6		
Agriculture	2.3	1.8	2.6	3.3		
Livestock	5.2	3.7	2.7	4.7		
Fishing	15.9	-10.1	4.7	-2.1		
Mining and hydrocarbons 3/	9.5	16.3	3.2	4.6		
Metallic mining	15.7	21.2	4.2	4.3		
Hydrocarbons	-11.5	-5.1	-2.4	3.3		
Manufacturing 4/	-1.5	-1.4	-0.3	1.9		
Manufacturing based on raw materials	1.8	-0.6	1.9	0.3		
Non-primary manufacturing	-2.6	-1.6	-0.9	2.5		
Electricity and water	5.9	7.3	1.1	5.5		
Construction	-5.8	-3.1	2.2	6.2		
Commerce	3.9	1.8	1.0	5.5		
Services	4.2	4.0	3.4	5.8		
GDP	3.3	4.0	2.5	4.9		
Memo:						
Primary	6.9	10.0	2.9	3.6		
Non-primary	2.4	2.4	2.4	5.3		

1/ Preliminary data.

2/ Includes the forestry sector.

3/ Includes non-metallic mining and secondary production.

4/ Includes secondary production.

2.1 **Agriculture Sector**

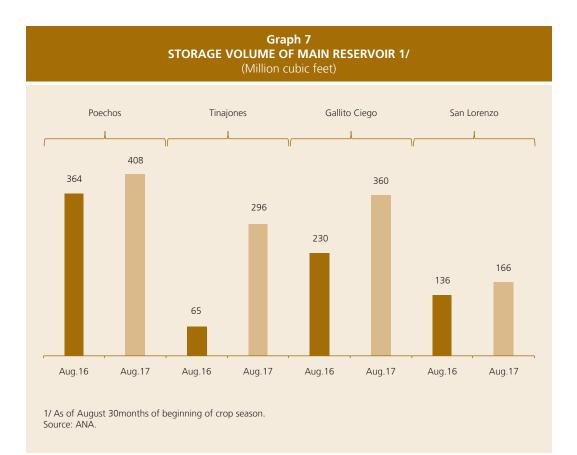
The agricultural sector grew 2.6 percent in 2017, recording a rate similar to that observed in 2016 despite the adverse impact of El Niño Costero on this sector in the first months of the year. With this growth rate, the sector accumulated thirteen continuous years of growth.

Table 6 AGRICULTURE AND LIVESTOCK PRODUCTION 1/ (Real % change)						
	2015	2016	2017	Average 2008-2017		
A. Agriculturel production	2.3	1.8	2.6	3.3		
For the domestic marketPotatoRiceOnionTangerineOrangeAlfalfaTomatoBananaCassavaAmilaceous maizeGarlicLemonOtherEor industryYellow hard maizeOil palmSugar caneEor exportCoffeeAsparagusGrapesAvocadoMangoCocoaQuinoaBlueberryOther	$\frac{3.2}{0.2}$ 8.8 0.3 5.4 1.3 3.3 -11.2 -3.3 2.9 1.9 10.1 1.6 3.6 $\frac{1.7}{17.2}$ 10.8 -10.3 $\frac{0.6}{13.5}$ -1.8 17.9 7.8 -8.0 13.4 -7.9 317.7 -41.7	$-1.9 \\ -4.3 \\ 0.5 \\ -7.2 \\ 12.8 \\ 7.6 \\ -2.7 \\ -1.4 \\ 0.9 \\ -4.0 \\ -9.9 \\ -12.9 \\ 0.9 \\ -2.1 \\ -10.6 \\ -14.3 \\ 7.6 \\ -3.7 \\ 15.4 \\ 11.5 \\ 2.0 \\ 15.4 \\ 20.9 \\ 8.0 \\ 16.6 \\ -25.0 \\ 164.4 \\ 33.7 \\ -2$	$ \begin{array}{r} -0.2 \\ 5.0 \\ -3.8 \\ 2.1 \\ 0.0 \\ 1.5 \\ -1.8 \\ -5.3 \\ -1.4 \\ 1.0 \\ -0.5 \\ 21.3 \\ -38.1 \\ 0.5 \\ -2.9 \\ 1.3 \\ 9.5 \\ -4.4 \\ \hline 10.0 \\ 21.5 \\ 0.8 \\ -6.6 \\ 3.4 \\ 1.9 \\ 11.2 \\ -0.9 \\ 85.9 \\ 7.0 \\ \end{array} $	$\frac{2.7}{3.4}$ 2.3 1.5 7.8 3.8 1.3 2.4 1.1 0.9 1.2 1.6 -4.7 3.5 -0.9 1.1 13.0 1.3 $\frac{6.4}{4.2}$ 3.0 12.6 14.5 2.6 14.4 9.5 n.d. 0.4		
B. Livestock production Poultry Beef Eggs Pork Milk Other	5.2 8.1 -0.1 7.7 5.6 3.4 -4.3	3.7 5.6 -3.0 3.8 4.5 2.7 3.3	2.7 4.1 -1.4 3.6 5.7 2.9 -5.1	4.7 7.3 1.4 4.9 3.3 2.4 0.2		
C. Total 2/	3.5	2.7	2.6	3.6		

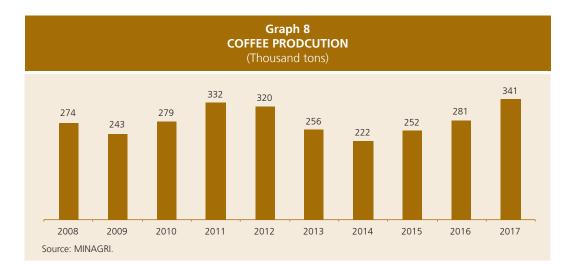
Preliminary.
 Includes the forestry sector.
 Source: INEI and MINAGRI.

This positive performance of the sector in 2017 is explained by the growth of agro-exports (10.0 percent) thanks to farmers' constant search for profitable products, such as blueberries, for example, as well as to their constant search for greater technological resources that allow them to face climate alterations better. It is worth pointing out that the success of blueberry exports in external markets is reflected in the fact that these exports grew 318, 164, and 86 percent in 2015, 2016, and 2017, respectively.

In addition to this, it is also worth mentioning that agricultural production was better oriented to agroindustry and to the domestic market than in the previous crop year thanks to the water resources that El Niño Costero left in the main reservoirs of the North Coast.



The country's diversity of geographical farming areas made it possible to offset the adverse effects of El Niño Costero on the north coast and on the central areas of the country since the highlands, the jungle and the south coast had better climatic conditions than in the previous crop year. Thus, while there was a lower output of the traditional crops produced in the north coast (sugar cane and lemon) and of the complementary crops also produced in this area (rice, grapes, and bananas), other crops showed higher volumes: potatoes (5.0 percent), garlic (21.3 percent), palm oil (9.5 percent), coffee (up 21.5 percent after overcoming the 2013 – 2015 period when coffee crops were affected by the rust pest), avocadoes (3.4 percent), and cocoa (11.2 percent). The livestock subsector also recorded high production volumes of poultry and pork meat (4.1 and 5.7 percent, respectively), as well as high volumes of eggs and milk (3.6 and 2.9 percent, respectively) for the domestic market.



It is worth mentioning that in the case of the production oriented to the domestic market, there was an oversupply of potatoes and good harvests of vegetables (onion and garlic) on the one hand, and, on the other hand, there was a lag in the harvests of rice, so the output showed a net drop, although lower than in the previous year. A similar situation was observed in the agro-industrial output with the recovery of the production of hard yellow maize (due to increased availability of water) and the growing production of oil palm, which offset the lower production of sugarcane associated with the effects of El Niño Costero (lower yields due to the "tropicalization" of this crop).

2.2 Fishing Sector

In 2017, the fishing output grew 4.7 percent as a result of increased anchovy landings in the first half of the year. In spite of El Niño Costero, the distribution, reproduction, and growth of the anchovy biomass were not seriously affected during the first fishing season because, first of all, sea warming occurred in surface waters and not in sub-surface waters, and second, the event was short-lived. As a result, the assigned quota and the respective catches were greater than those obtained in the first fishing season in 2016. Thus, the volume of anchovy catch for industrial consumption increased from 2.7 to 3.2 million MT between 2016 and 2017.

Conversely, the cooling of sea temperatures observed along the Peruvian coast during the second half of the year brought about the dispersion of the anchovy biomass, favoring spawning conditions and increasing the presence of juvenile fish. In these conditions, the Ministry of Production first established a lower fishing quota for the second fishing season than the one authorized in 2016, and then, ordered the temporary closure of the fishing season in the months of November and December.

Table 7 FISH CATCH BY MAIN SPECIES (% change)					
Species	2015	2016	2017	Average 2008-2017	
Fishing sector	15.9	-10.1	4.7	-2.1	
Anchovy	60.3	-24.4	15.8	-6.3	
Jack mackerel	-62.2	-28.9	-44.8	-25.7	
Prawns	23.0	9.3	32.5	11.1	
Giant Squid	-8.2	-42.4	2.6	-4.0	
Mackerel	-48.2	276.6	-59.7	-1.2	
Tuna	134.1	-1.8	8.4	12.3	
Scallops	-71.6	-32.0	-54.4	-13.6	

Source: Ministry of Production.



Table 8 MAXIMUM LIMIT OF THE TOTAL ALLOWABLE CATCH (North-Central zone)						
Year	Season	Biomass (Million tons)	% of youthful fish (in weight)	Maximum limit of the total allowable catch (Million tons)	Catch (Millions)	Extraction (%)
2011	First	10.5	45	3.7	3.6	98
	Second	10.6	22	2.5	2.5	99
2012	First	9.5	14	2.7	2.5	93
	Second	5.3	19	0.8	0.8	95
2013	First	10.8	47	2.1	2.0	98
	Second	10.3	26	2.3	2.3	99
2014	First	6.1	19	2.5	1.7	68
	Second	4.4	40	0.0	0.0	0
2015	First	9.5	21	2.6	2.5	97
	Second	5.6	41	1.1	1.1	97
2016	First	7.3	29	1.8	0.9	51
	Second	6.9	49	2.0	2.0	100
2017	First	7.8	43	2.8	2.4	85
	Second	6.1	67	1.5	0.7	46

Source: IMARPE and Ministry of Production.

The output of fishing for direct human consumption fell 1.5 percent due to the lower availability of mackerel for consumption as frozen, canned, and fresh products, as well as the lower availability of yellow mackerel for consumption as fresh products. Although the presence of these species was favored by the warmer temperatures recorded in the first semester of the year, the cooling of sea temperatures in the second half of the year caused a greater dispersion of both species and hindered both artisanal and industrial fishing. This result was in part offset by increased catches of other species, i.e. perico, bonito, squid, and prawns.

2.3 Mining and Hydrocarbons Sector

Production in the mining and hydrocarbons sector recorded a growth rate of 3.2 percent in 2017, this result being explained by the higher production of copper (4.5 percent) obtained mainly in Toromocho and Las Bambas, and by the higher production of zinc (10.2 percent), obtained mainly in Antamina. The lower output with respect to 2016 is explained by the end of the base effect associated with the onset of operations at Cerro Verde and Las Bambas in the fourth quarter of 2015, since this base effect accounted for 16.6 percentage points of the growth of the sector in 2016.

Table 9 PRODUCTION IN THE MINING AND HYDROCARBONS SECTOR 1/ (Real % change)							
2015 2016 2017 Average 2008-2017							
METALLIC MINING	15.7	21.2	4.2	4.3			
Copper	25.8	40.1	4.5	8.9			
Iron	1.8	4.7	14.9	5.6			
Gold	4.8	4.2	-1.2	-1.2			
Silver	8.9	6.7	-1.6	2.1			
Lead	13.8	-0.4	-2.4	-0.7			
Zinc	8.0	-5.9	10.2	0.2			
Molybdenum	18.4	27.8	9.3	5.3			
Tin	-15.6	-3.7	-5.3	-7.6			
HYDROCARBONS	-11.5	-5.1	-2.4	3.3			
Oil	-16.3	-30.1	7.8	-5.5			
Liquid of natural gas	-11.6	3.9	-4.4	9.5			
Natural gas	-3.3	12.0	-7.7	15.8			
TOTAL 2/	9.5	16.3	3.2	4.6			

Preliminary.
 Includes non-metallic mining and secondary production.
 Source: MINEM.

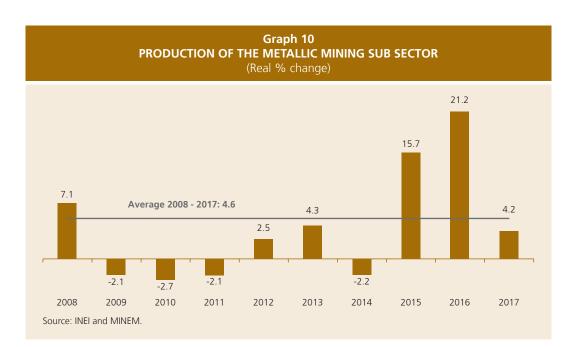
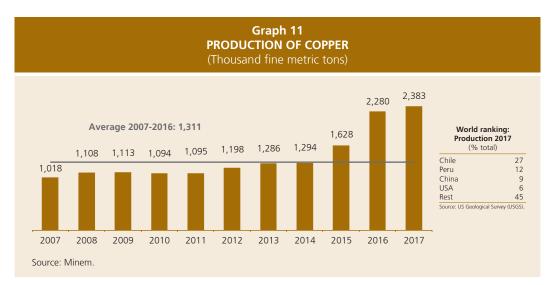


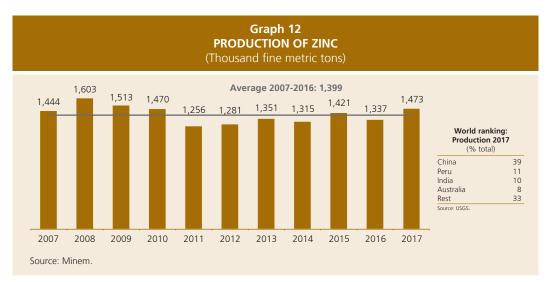
Table 10 VOLUME OF MINING PRODUCTION BY PRODUCT AND COMPANY					
	2007	2016	2017		
Production of gold (Thousand troy ounces)	5,473	4,919	4,858		
Largest mining	3,535	1,405	1,232		
Minera Yanacocha	1,564	668	535		
Minera Barrick Misquichilca	1,606	547	509		
Compañía de Minas Buenaventura	365	190	189		
Rest 1/	1,938	2,620	2,725		
New projects		894	901		
La Arena - Río Alto		204	189		
Tantahuatay - Buenaventura		149	152		
La Zanja - Buenaventura		140	128		
Pucamarca - Minsur		106	100		
Anama -Aruntani		85	91		
Inmaculada - Hochschild		163	165		
Shahuindo - Río Alto		48	76		
Production of copper (Thousand fine metric tons)	1,018	2,280	2,383		
Largest mining	930	1,426	1,391		
Compañía Minera Antamina	341	444	439		
Southern Peru Copper Corporation	323	288	281		
Sociedad Minera Cerro Verde	182	473	465		
Antapaccay	84	221	206		
Rest	88	223	222		
New projects		631	769		
TGoldmocho - Chinalco		168	195		
Constancia - Hudbay		133	122		
Las Bambas - MMG		329	453		
Production of zinc (Thousand fine metric tons)	1,444	1,337	1,473		
Largest mining	1,050	872	986		
Compañía Minera Antamina	322	261	442		
Compañía Minera Milpo	90	245	211		
Volcan Compañía Minera	276	169	151		
Empresa Minera Los Quenuales	201	29	25		
Sociedad Minera El Brocal	91	59	54		
Empresa Administradora Chungar	69	109	103		
Rest	394	465	487		
Production of Silver (Million fine troy ounces)	113	141	138		
Largest mining	53	63	62		
Compañía Minera Antamina	11	21	21		
Compañía de Minas Buenaventura	12	22	23		
Volcan Compañía Minera	16	11	8		
Compañía Minera Ares	13	9	10		
Rest	60	78	76		
Production of Lead (Thousand fine metric tons)	329	314	307		
Largest mining	194	117	116		
Compañía Minera Milpo	18	37	34		
Volcan Compañía Minera	86	26	20		
Empresa Administradora Chungar	29	28	30		
Sociedad Minera El Brocal	39	16	24		
Empresa Minera Los Quenuales	23	9	8		
Rest	135	197	191		

1/ Includes Madre de Dios. Source: MINEM.

Copper production (2.4 million fine metric tons) grew 4.5 percent in 2017 due to the increased production of Toromocho and Las Bambas. Toromocho higher production was associated with the implementation of efficiency improvements aimed to increase the copper content (in mineral concentrate) and to reduce the arsenic content, while the higher performance of Las Bambas was associated with its progressive increasing of production until the third quarter of 2016, when it reached its maximum capacity. On the other hand, the production of Cerro Verde and Southern was lower than in the previous year, mostly due to the 21 day strike that affected the former in March and to the 13 day strike that affected the latter in April. Cerro Verde and Las Bambas met their annual production goals, while Antamina, Toromocho, and Constancia exceeded them. Moreover, the production of molybdenum, which is a byproduct of copper extraction, grew 9.3 percent due to the higher production of Antamina and Las Bambas. The latter began commercial production of this mineral in June 2017.

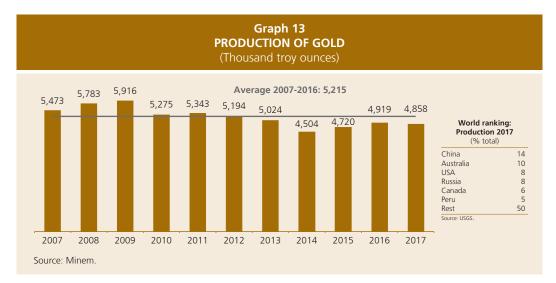


Zinc production grew 10.2 percent due to higher production in Antamina. This increase is explained because the extraction of this mineral was concentrated in an open pit phase in an area that is rich in zinc, which also responded to the company's policy of taking advantage of the high price of this mineral. Thus, in September 2017 the company reached its highest zinc production since November 2009 and its third highest monthly historical level (50 thousand FMT).

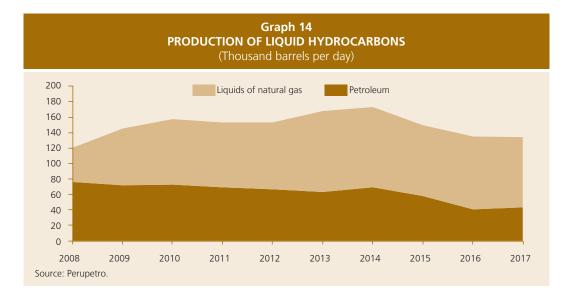


Iron production grew 14.9 percent as a result of the start of the project aimed to recover ore from Shougang tailings, carried out by the company's associate Minera Shouxin in Marcona. In contrast, the production of lead fell by 2.4 percent (307 thousand FMT in 2017) while the production of silver fell by 1.6 percent (138 million ounces in 2017) due to the lower extraction of these metals by Volcan company.

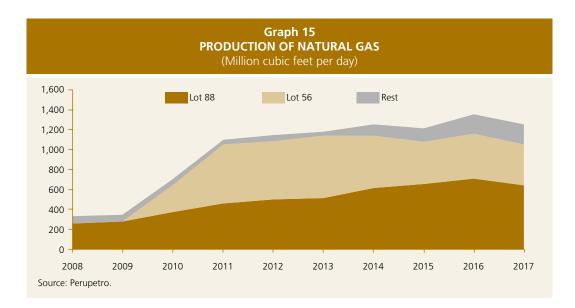
Gold production fell 1.2 percent in 2017, from 4.92 to 4.86 million troy ounces, mainly due to the lower grades of this mineral in Yanacocha and due to the closure of the Pierina mining unit and the depletion of Lagunas Norte in Barrick mines. Despite this, Yanacocha, Barrick, and Tantahuatay met their annual production goals.



Output in the hydrocarbons subsector continued to fall throughout 2017 (-2.4 percent), this contraction being explained by a lower production of natural gas and natural gas liquids (-4.4 and -7.7 percent, respectively). The production of natural gas fell due to the lower production of Pluspetrol's Lots 88 and 56. In the case of Lot 88, the fall in production is explained by the lower demand of thermoelectric generators as a result of the decrease in the cost of hydroelectric generation due to the great availability of water resources resulting from El Niño Costero. In the case of Lot 56, the fall was mainly associated with anomalous sea waves in some months that prevented the departure of ships carrying gas for export. Moreover, given that natural gas liquids and natural gas are extracted together, there was also a lower production of natural gas liquids in Lots 88 and 56.



On the other hand, oil production recovered after two years of falls and recorded a growth rate of 7.8 percent. This was due to an increase in the production of Lot 8, which restarted operations after being paralyzed between September and November 2016 due to the protests of local native communities in Estación N°1 in Loreto, as well as to the production of Lot 92 due to the restart of operations of Oleoducto Norperuano, which had been interrupted since February 2017. Despite this, however, oil production remained below the levels of 2014 (69 thousand barrels per day).



2.4 Manufacturing Sector

Manufacturing in 2017 decreased by 0.3 percent due to the lower activity of non-primary manufacturing, which registered a fall of 0.9 percent. This is explained by the slowdown of activity in the export-oriented textile industry and industry producing inputs and capital goods for the domestic market.

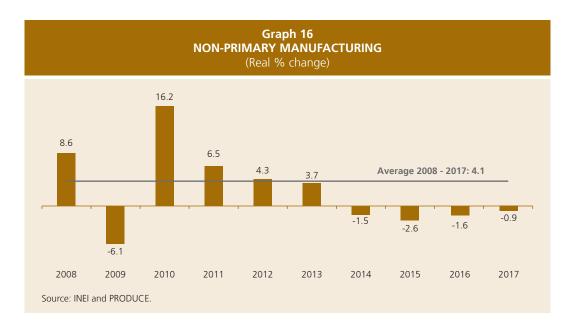
The manufacturing branches engaged in the **processing of raw materials** grew 1.9 percent. This rate reflected the greater production of the fishing industry, mainly the processing of fishmeal and fish oil associated with the greater availability of anchovy, as well as increased oil refining, particularly in the La Pampilla refinery, which increased its installed capacity from 95 MBD to 117 MBD and reduced its sulfur levels.

Conversely, the refining of non-ferrous metals decreased, especially in the case of copper cathodes from Cerro Verde due to the lower availability of copper oxides, and in the case of refined zinc from the Cajamarquilla Refinery, which paralyzed its operations due to El Niño event. Furthermore, the production of piled rice decreased due to a lower agricultural supply, while the production of sugar declined due to the lower yield of sugarcane, since the production of both rice and sugar was affected by El Niño.

Table 11 MANUFACTURING BASED ON RAW MATERIALS (Real % change)						
	2015	2016	2017	Average 2008-2017		
Manufacturing based on raw materials	1.8	-0.6	1.9	0.3		
Rice	8.8	0.5	-3.9	2.3		
Sugar	-9.6	5.1	-5.6	1.7		
Meat products	5.8	4.4	2.7	4.8		
Fishmeal and fish oil	53.0	-19.3	15.7	-6.3		
Canned and frozen fish products	-17.4	-6.1	0.3	-0.2		
Refining of non-ferrous metal	-5.5	1.3	-2.7	-1.6		
Refining of crude	0.4	5.3	8.3	4.7		

Source: Ministerio de la Producción and INEL

Output in **non-primary manufacturing** decreased 0.9 percent, as a result of which this subsector records four consecutive years of decline. In the first half of 2017, the industry was affected by El Niño, which caused problems in the areas of transport, supply of inputs, and labor shortages due to the closure of roads and bridges as well as due to the damage caused to factories' infrastructure and machinery.



Output in the branches engaged in the production of mass consumption goods grew 0.2 percent, the increase in the production of footwear, various food products, and other paper and cardboard items standing out. On the other hand, the production of toilet and cleaning products decreased because one of main companies in the sector transferred its operations to Colombia, while the production of dairy products declined, affected in the first months of the year by the El Niño Costero and by lower demand for some products of this category.

Production in the branches related to exports fell 1.9 percent due to the lower production of clothing, and yarn, fabrics and finishes due to lower demand in the first half of the year. The production of canned foods, particularly asparagus, also decreased, affected by logistical problems caused by El Niño Costero as well as by lower external demand. It is worth mentioning that in the case of the textile industry, external demand recovered in the last months of the year due to orders for new products in niche markets and due to requests from new customers.

In the branches related to inputs, the output decreased 3.2 percent due to the lower production of the wood industry, affected also by El Niño event. In addition, editing and printing activities and the production of chemical products were also lower due to lower external demand. In contrast, however, after two years of decline, the plastics industry showed an increase due to the recovery of domestic demand associated with sanitation and construction projects.

Output in the investment-oriented branches decreased 0.4 percent. This was particularly noteworthy in the production of electrical machinery due to a lower demand for transformers, electrical panels, and electrical wires and cables, the production of these goods being affected by competition of imported products. In the case of metallic products, the decline was generated by the agro-export sector's lower demand for metal containers and by a lower demand for construction materials, especially ceramic floors and ready-mix concrete.



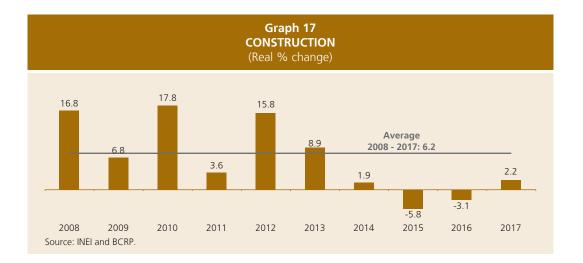
GROWTH OF NON-PRIMARY MANUFACTURING BY TYPE OF GOODS (Real % change)					
	2015	2016	2017	Average 2008-2017	
Mass consumption goods	0.2	1.5	0.2	3.1	
Dairy products	3.1	-4.6	-4.9	2.9	
Bakery	1.2	-4.6	3.1	0.8	
Oils and fats	4.5	2.3	6.5	4.1	
Miscellaneous food products	-8.0	-6.2	14.7	4.2	
Beer and malt	-0.4	-0.8	0.0	2.6	
Soft drinks	9.1	7.2	-3.9	6.2	
Clothing	-8.7	-4.2	-4.3	-2.2	
Shoes	3.0	4.1	16.2	7.3	
Furnitures	7.8	5.7	-5.1	7.3	
Other paper and cardboard items	12.5	1.6	12.7	7.9	
Toiletries and cleaning products	-1.9	9.8	-14.9	2.6	
Pharmaceutical products	-20.4	10.1	-8.0	-2.5	
Miscellaneous items	-6.0	-9.9	15.0	-0.9	
Goods for external markets	-6.3	-4.2	-1.9	-1.5	
Canned food	-4.2	4.1	-2.9	3.3	
Synthetic fibers	-10.5	-4.0	0.9	-3.1	
Yarns, fabrics and finished garments	-5.1	-7.7	-1.6	-2.6	
Knitted garments	-5.9	-10.2	4.1	-3.4	
Clothing items	-8.7	-4.2	-4.3	-2.2	
Inputs	-4.4	-0.7	-3.2	1.6	
Wheat flour	0.6	-4.4	0.6	1.3	
Othe textil items	-7.0	-1.0	8.9	-1.7	
Woods	-11.0	-4.4	-32.0	-8.7	
Paper and cardboard	-16.6	-5.5	-7.3	0.0	
Paper and cardboard containers	1.4	7.4	7.9	4.9	
Publishing and printing	-17.9	2.5	-16.6	0.3	
Basic chemicals	0.9	-6.4	5.3	1.4	
Explosives, chemical and natural scents	19.6	3.9	-3.7	7.9	
Rubber	-5.2	-10.5	6.6	-2.0	
Plastic	-1.7	-0.8	1.3	4.7	
Glass	0.2	9.5	2.3	10.1	
Capital goods	-3.6	-5.1	-0.4	4.8	
Iron and steel industry	-3.6	2.2	4.5	0.7	
Metallic products	2.8	-10.2	-3.8	6.6	
Machinery and equipment	-7.3	-9.2	22.8	2.2	
Electric machinery	-30.5	15.6	-5.2	-1.0	
Transport equipment	-7.1	-16.2	-5.6	5.7	
Paints, varnishes and lacquers	-2.4	-9.1	5.3	4.8	
Cement	-1.9	1.5	0.7	5.5	
Construction materials	-3.1	-5.4	-3.0	4.1	
Industrial services	-7.0	-2.6	-4.5	7.9	
Total non-primary manufacturing	-2.6	-1.6	-0.9	2.5	

Table 12

Source: Ministry of Production.

2.5 Construction Sector

After showing falls in the previous two years, the construction sector grew 2.2 percent in 2017. Investment recovered in the second half of the year, after being affected by a slowdown in the pace of public spending and by the effects of El Niño Costero in the first half of the year. The recovery of investment in the second half of the year was reflected in a higher consumption of cement for real estate, commercial and business center projects, as well as in an acceleration in the progress of public works, both at the levels of the national government and the subnational governments. The implementation of public works showed an increase of 7.5 percent in the year (14.2 percent in the second semester), while the domestic consumption of cement increased 0.3 percent during the year (4.4 percent in the second half of the year).



As for the residential real estate market, the Peruvian Chamber of Construction (CAPECO) reported in its Estudio del Mercado de Edificaciones en Lima Metropolitana y el Callao that 25.1 thousand apartments were offered in 2017. In other words, the number of apartments offered was 4 percent higher than in 2016. Moreover, 65 percent of the housing supply was concentrated in the intermediate range of prices (between S/ 80 thousand and S/ 400 thousand), mainly in Modern Lima, Lima Center and Lima North, while 34 percent of this supply corresponded to the segment of high prices (over S/ 400 thousand), with the segment denominated Lima Top standing out.

Table 13 REAL ESTATE SECTOR: EVOLUTION OF MAIN VARIABLES						
Indicator	2015	2016	2017			
Apartments: Unit sold - CAPECO 1/	10,889	10,643	13,354			
% Change	<i>-33.3</i>	<i>-2.3</i>	25.5			
Apartments: Unit sold- TINSA 2/	12,901	10,865	13,025			
% Change	<i>16.8</i>	<i>-15.8</i>	<i>19.9</i>			
Unmet demand - CAPECO 1/	435,129	449,750	464,760			
% Change	<i>4.7</i>	<i>3.4</i>	<i>3.3</i>			
New mortgage loans 3/	30,358	28,088	30,656			
% Change	<i>-7.8</i>	<i>-7.5</i>	<i>9.1</i>			
New loans Mivivienda 4/	9,090	8,082	7,101			
% Change	<i>-15.7</i>	<i>-11.1</i>	<i>-12.1</i>			
Number of debtors of current mortgage borrowers 3/	209,646	212,084	219,342			
% Change	<i>3.4</i>	<i>1.2</i>	<i>3.4</i>			
Mortgages disbursed in S/ (mills.) 3/	8,311	7,437	8,583			
% Change	<i>21.9</i>	<i>-10.5</i>	<i>15.4</i>			
Mortgages disbursed in US\$ (mills.) 3/	320	460	593			
% Change	-47.6	<i>43.7</i>	29.0			
Average interest rate by mortgage loans in S/ 5/	9.0	8.9	8.7			
Average interest rate by mortgage loans in US\$ 5/	8.2	7.8	7.5			
Ratio PER 6/	17.0	17.7	17.1			

1/ "El Mercado de Edificaciones Urbanas en Lima Metropolitana y el Callao", CAPECO. A one-year period is considered (from July to June in the next year). "Informe de Coyuntura Inmobiliaria", TINSA PERU SAC.

2/

3/ Commercial banks. Source: SBS.4/ "Nuevo Credit Mi Vivienda". Source: Fondo Mi Vivienda.

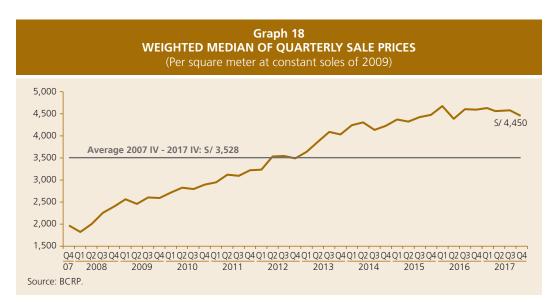
5/ Average lending interest rates by commercial banks. Source: SBS.

6/ Data as of Q4 of the year. Price to earning ratio.

A total of 13,354 apartments were sold in 2017. Moreover, 68 percent of these apartments were in the process of construction, which reflects the advanced sale of apartments on blueprints or during the construction process. Furthermore, 63 percent of the homes sold were in an intermediate price range (between S/ 80 thousand and S/ 400 thousand), while 36 percent were in a range of high prices (over S/ 400 thousand).

The average price of apartments per square meter in Lima and Callao was S/ 5,016, 2.8 percent higher than in 2016. Miraflores is the district with the highest price (S/ 7,917), followed by Barranco (S/ 7,606), San Isidro (S/ 7,545), and San Borja (S/ 7,542). The average area of an apartment in Lima and Callao decreased from 83.9 to 77.9 square meters between 2016 and 2017, showing a downward trend in all of the districts of Lima.

In 2017 new mortgage loans recorded an increase of 9.1 percent, while the new loans of MiVivienda decreased 12.1 percent. Moreover, the sale prices per square meter of housing in Metropolitan Lima in constant soles showed a stable behavior. In the last quarter of 2017, the annual price-income ratio registered a value of 17.1, a slightly lower ratio than the level observed in the fourth quarter of 2016 (17.7).



As regards the *prime office* market, according to information provided by Colliers International, 15 new prime buildings with 181,267 square meters entered the Lima office market in 2017. The new offer remains at levels similar to those observed in 2016, although showing a declining trend since 2015 when it reached 225,000 square meters. At the end of 2017, the vacancy rate was 28.2 percent, higher than in 2016 (26.4 percent).

3. Employment

According to INEI's Permanent Employment Survey, the employed labor force in Metropolitan Lima grew 1.5 percent in 2017, slightly less than in 2016 (1.8 percent). At the level of production sectors, employment grew only in the sectors of commerce (5.8 percent) and services (1.8 percent), and declined in the sectors of construction (-4.3 percent) and manufacturing (-1.4 percent). This took place in a context of increased production in the sectors of commerce (1.0 percent) and services (3.4 percent), while a slight drop was observed in the manufacturing sector (-0.3 percent).

The rate of underemployment in terms of income level increased from 22.2 percent in 2016 to 22.9 percent in 2017, while the rate of unemployment, which measures the percentage of the economically active population (EAP) who is actively searching for a job and is unable to find work, increased from 6.7 to 6.9 percent.

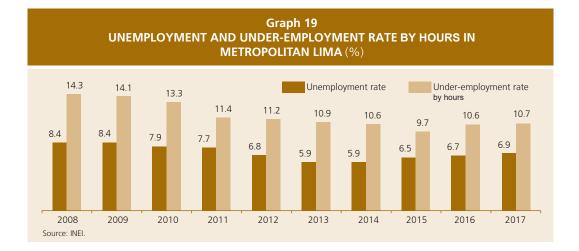


Table 14 WORKFORCE BY LEVELS OF EMPLOYMENT IN METROPOLITAN LIMA 1/ (Thousand people)							
		2015	2016	2017	% chg. 2017/2016		
	ONOMICALLY ACTIVE POPULATION AP): 1 + 2	5,019	5,124	5,208	1.6		
1.	EMPLOYED By economic activity	4,694	4,779	4,850	1.5		
	Manufacturing Construction Commerce Services Others	707 364 977 2,595 51	687 362 953 2,719 57	677 347 1,008 2,770 47	-1.4 -4.2 5.8 1.9 -17.2		
	<u>By educational level</u> Primary school 2/ Complete high school 3/ Higher education University higher education	374 2,289 898 1,133	381 2,271 905 1,223	373 2,323 926 1,227	-2.1 2.3 2.4 0.3		
	<u>By occupation</u> Salaried workers 4/ Non-salaried workers	2,966 1,727	2,991 1,787	3,039 1,811	1.6 1.3		
	By size of business Independent 5/ From 2 to 10 workers From 11 to 50 workers More than 50 workers	1,516 1,257 482 1,439	1,583 1,246 483 1,467	1,609 1,319 481 1,440	1.6 5.8 -0.5 -1.8		
	By number of hours worked per week Employed workers working 20 or more hours Salaried workers working 20 or more hours	4,286 2,777	4,339 2,801	4,379 2,824	0.9 0.8		
2.	UNDER-EMPLOYED Visible under-employment (by hours) 6/ Invisible under-employment (by income) 7/	1,647 487 1,160	1,677 542 1,136	1,747 556 1,191	4.1 2.5 4.9		
3.	PROPERLY EMPLOYED	3,046	3,101	3,103	0.0		
4.	UNEMPLOYED	325	345	358	3.8		
II. INA	ACTIVE POPULATION	2,334	2,361	2,393	1.3		
III. WO	DRKING-AGE POPULATION (PWA)	7,353	7,485	7,600	1.5		
Em Un	; (%) ivity rate (EAP / PWA) ployment/population (Employed EAP/PWA) employment rate (Unemployed EAP/EAP) der-employment by hours	68.3 63.8 6.5 9.7	68.5 63.8 6.7 10.6	68.5 63.8 6.9 10.7			

Annual average.
 Includes individuals with no school education or with elementary school education.
 Incomplete and complete secondary school.
 Includes employees, workers and housekeepers.
 Vorking alone or in partnership, having no salaried workers.
 Includes workers unwillingly working less than 35 hours per week.
 Workers working 35 or more hours a week who earn less than the minimum salary estimated as benchmark by INEI.
 Source: INEI. Encuesta Permanente de Empleo.

Box 1 IMPACT OF EL NIÑO COSTERO

In the first half of 2017 Peru was affected by an episode of El Niño, which was called El Niño Costero due to its characteristics. Unlike a typical El Niño event, which is caused by the displacement of warm Kelvin waves from the Central Pacific area and brings about an increase in the subsurface temperature of the sea, this event was caused by the displacement of waters from Ecuador towards the south and by atypical atmospheric conditions, which caused a sudden warm up in sea temperature. As a result, as from the second half of January, the surface temperature of the sea off the coast of Paita began to increase steadily and the anomalies –measured as the difference between the observed temperature and the historical average– recorded unusually high values. Although Peru has experienced very strong El Niño Costero is infrequent: the last time the country experienced a similar event was in 1925.

El Niño Costero generated significant impacts on production. In non-primary sectors such as manufacturing, construction and transport services, the impact was widespread and stronger, while in the primary sectors, the impact was specific for some agricultural products and the production chain of some mines was affected.

In the sector of agriculture, the most affected crops were lemons, bananas, sugar cane, rice, and grapes. These crops faced not only immediate problems, such as the flooding of the fields, but also effects on their yields throughout the year as a result of a permanent loss of cultivation hectares. In the case of lemon, the excess of rain affected its ripening process and the quality of the crop, and the recovery process thereafter was slower than expected. In the case of bananas, El Niño caused difficulties and damages that affected the processes of harvesting and transportation towards the packing centers, which affected mainly the exports of organic bananas. Moreover, sugarcane crops were damaged by the flooding of the fields, which affected harvesting, as well as by the subsequent greening of the cane due to excessive rains, which hindered the cutting and burning of sugarcane for its processing. Finally, the yields of some agricultural exports, i.e. grapes and paprika, were affected by pests associated with excess humidity and high temperatures.

The impact of El Niño Costero in the fishing sector was mitigated by the short duration of the event and also because the warming of marine temperatures affected the superficial waters and not the subsurface waters, which are the ones that have a direct effect on anchovy.

In the mining sector, El Niño Costero caused (i) a loss of connectivity due to the disruption of roads and railroad tracks, and (ii) problems in carrying out the process of mineral concentration due to rain and fog. The flow of shipments from the mines of the central region to the port of Callao was interrupted by the damage caused in several sections of the Central Highway as well as by interruption of train shipments using the central railway. Despite this, there was no significant impact on production since mining companies had accumulated mineral inventories, but the exports of companies that did not have inventories in the port of Callao declined. For example, Volcan had to suspend temporarily the delivery of concentrates to its customers by invoking the force majeure clause in its contracts. The closure of the main access roads to the central only affected the shipment of finished products, but also constrained the entry of inputs necessary for the production process. For instance, some companies that transport minerals to their concentrationr plants using dump trucks reported that they reduced the rate of preparation of concentrates due to the problems they faced (haze and road problems). This lower mining production also generated a lower consumption of electricity.

Like mining, manufacturing production was affected by (i) the closing of roads used to transport inputs and finished products, (ii) the damage caused to factories; and (iii) lower demand. In the case of primary manufacturing, production decreased in the first half of the year as a result of the temporary closure of the Cajamarquilla refinery (Huachipa), which refines zinc and cadmium. On the other hand, non-primary manufacturing reported lower production of dairy products, food products, beverages, miscellaneous manufacturing products, paper and cardboard products, iron and steel, and printing activities. It is worth mentioning that Lima concentrates 61 percent of the national manufacturing production, while the regions in the North account only for 13 percent of this production. Moreover, in no case was the effect permanent and companies in these branches recovered in the second half of the year.

On the other hand, even though growth in the construction sector was affected due to the lower demand for materials for self-construction projects and to the difficulties faced to deliver construction material, cement plants did not stop operating. The fall in activity in this sector affected other companies, such as construction materials and related services.

The North Coast region was the region most affected by El Niño Costero. A significant part of its road infrastructure collapsed, which had a strong negative impact on commercial activities and services in the departments of this region. Tumbes, Piura, Lambayeque, and La Libertad represent about 18 percent of the country's total commerce and transportation services. The pace of recovery in these sectors has been lower due to the slower pace of recovery observed in terms of household income and due to delays in the reconstruction of road infrastructure.

El Niño Costero had a significant impact on infrastructure, damages concentrating in the north coast region of Peru, which accounts for around 20 percent of the country's production. According to the Authority in charge of Reconstruction –Reconstrucción con Cambios (RCC)–, El Niño Costero affected 2,638 kilometers of road, 192 bridges, 7,095 kilometers of departmental roads, about 1,444 school buildings, and 45,613 homes.