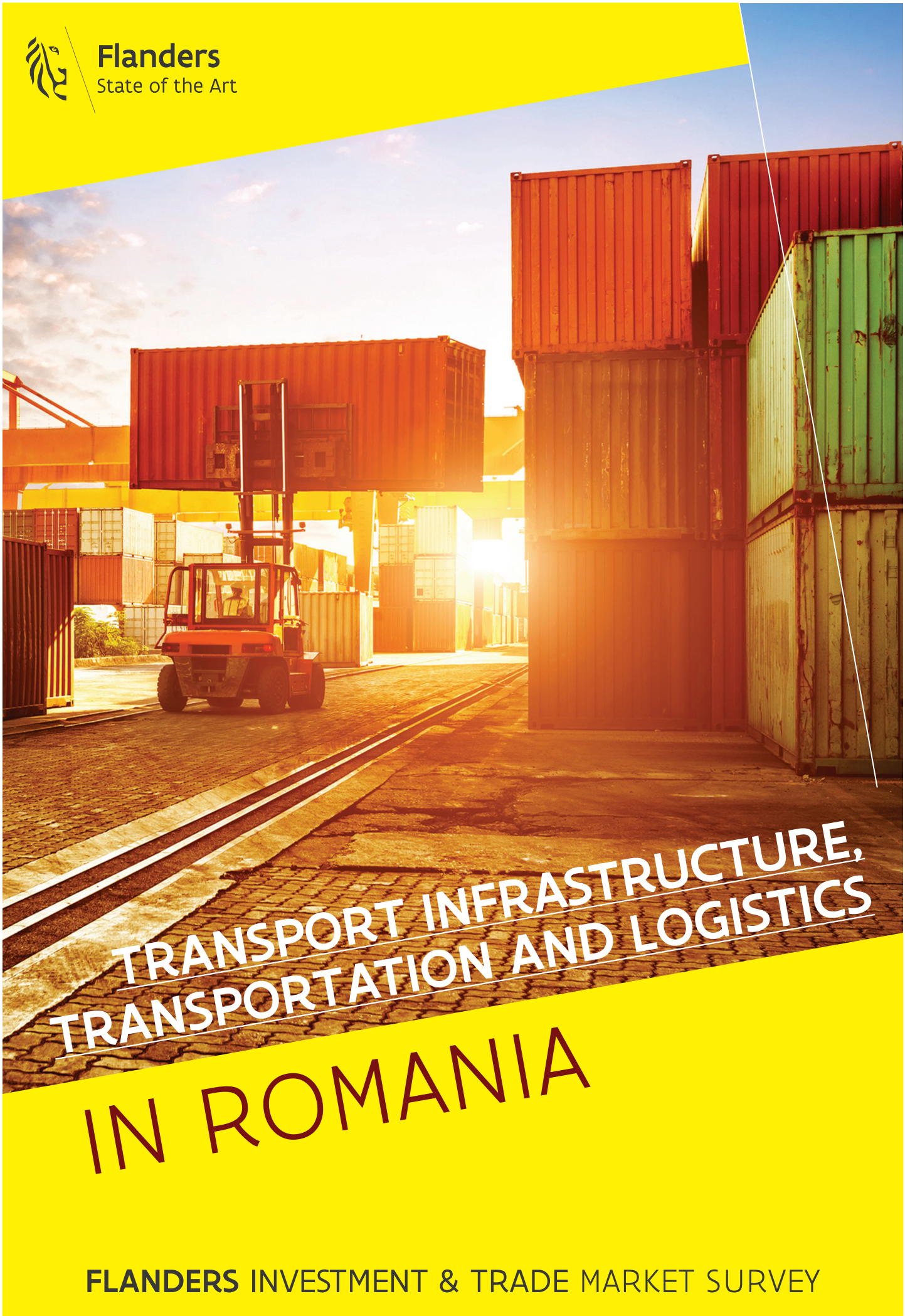




Flanders
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**TRANSPORT INFRASTRUCTURE,
TRANSPORTATION AND LOGISTICS**

IN ROMANIA

FLANDERS INVESTMENT & TRADE MARKET SURVEY



Flanders
State of the Art

Transport Infrastructure, Transportation and Logistics in Romania

December 2016

FLANDERS INVESTMENT & TRADE
Economic & commercial representation of Flanders
for Romania and Moldova

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FLANDERS INVESTMENT & TRADE

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1. General economic overview

Current situation and forecast

Over the last decades Romania has made considerable progress in developing for a market economy. Joining the European Union in 2007 was a driving force for reform and modernization.

Romania was one of the fastest-growing economies in Europe in the mid-2000s, producing a 6.3% GDP growth in 2007 and 7.3% in 2008. The global economic downturn revealed Romania's structural weaknesses and imbalances, resulting into GDP contractions both in 2009 and 2010 by 7.1%, and respectively 1.9%.

The period 2011-2012 marked a slowly recovery, turning from previous negative readings to positive ones with GDP growth by 2.5% in 2011, but only by 0.7% in 2012 as the difficulties of the economic environment were amplified by the internal political situation, generating tensions and uncertainty regarding the general economic policy adopted by the government.

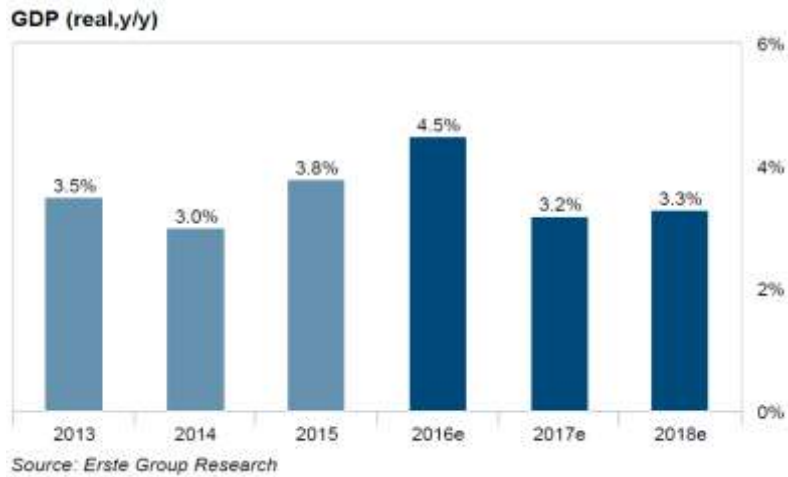
However, despite several governmental and institutional changes, Romania has continued to produce economic growth in the years to come. The real GDP growth in 2013 exceeded expectations, going up 3.5% with industry and agriculture having the largest positive impact. 2014 registered a GDP growth of 3%, mainly driven by communication and industry.

After years of growth, during 2015 and 2016 the Romanian government has taken certain measures concerning fiscal relaxation (lowered the VAT rate to 20% from 24%, to 9% from 24% for food, lowered the income-withholding tax rate, removed a controversial "special construction" tax, simplified deductibles, exempted certain dividends from corporate income tax, and introduced some fiscal incentives in fields such as: research, development and innovation), which cumulated with a robust wage growth (19% increase in the minimum wage as of May 2016) and resulted into a rebound in investment and an increase of private consumption.

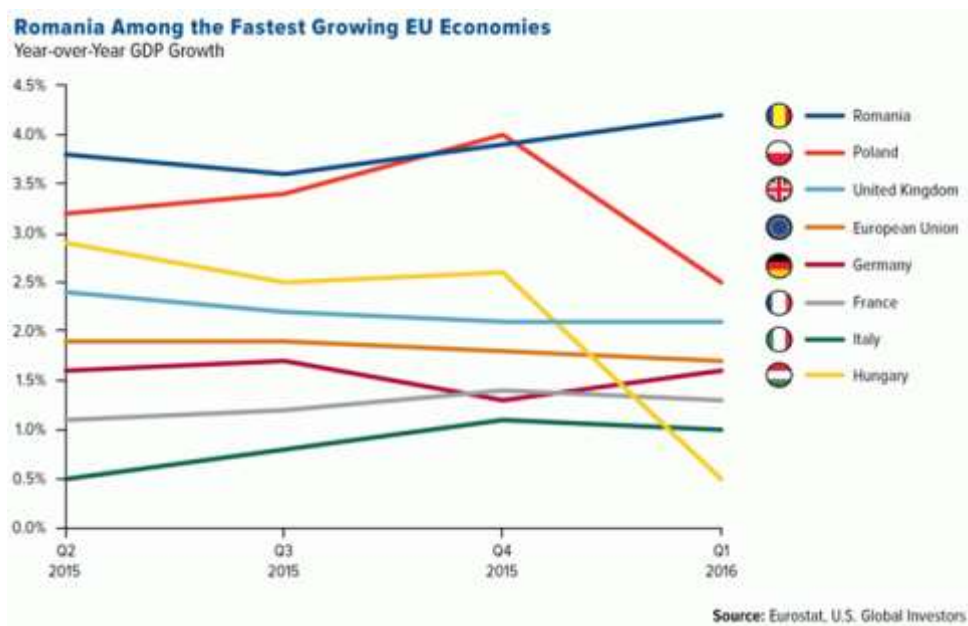
Annual	2014	2015	2016e	2017e	2018e
GDP real	3.0%	3.8%	4.5%	3.2%	3.3%
CPI (y/y)	1.1%	-0.6%	-1.4%	1.4%	2.0%
Private Consumption	3.7%	5.9%	8.0%	5.0%	3.9%

Source: Erste Group Research

In this context Romania witnessed a GDP growth of 3.8% in 2015, and a GDP growth of 5.2% in the first half of 2016, which has been the highest economic growth in Europe.



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The growing economy in Romania has generated new working places and the unemployment rate has witnessed a decreasing trend. The unemployment rate is projected to fall from 6.8% in 2015, to 6.7% this year. The distribution of employment by activity sector of the national economy has shown a significant increase in the number of people employed in information and communication technology, education, public administration and defense, administrative activities, and transportation and storage.

Unemployment rate %							
2009	2010	2011	2012	2013	2014	2015	2016*
6,9	7,3	7,4	7,2	7,1	6,8	6,8	6,7

*: forecast

Source: Romanian National Institute of Statistics

Inflation rate declined in recent years, reaching record lows (negative) in 2015. This downgrade has been mainly influenced by the evolution of food prices, which have declined after June 1st 2015 when the VAT rate decreased from 24% to 9%.

	2012	2013	2014	2015
Consumer price indices (%) (previous year = 100)				
Total	103.33	103.98	101.07	99.41
Food goods	101.89	102.96	98.37	96.20
Non-food goods	103.77	105.19	102.45	100.93
Services	105.07	103.19	103.16	102.04
Monthly average inflation rate (%)				
Total	0.4	0.1	0.1	-0.1
Food goods	0.5	-0.2	0.0	-0.5
Non-food goods	0.4	0.3	0.1	0.2
Services	0.3	0.3	0.2	0.2
Average exchange rate in December				
lei / Euro	4,4895	4,4633	4,4591	4,5040
lei / USD	3,4240	3,2581	3,6185	4,1390

Source: Romanian National Institute of Statistics

The budget deficit calculated according to the European methodology went down by 3.3% in 2011-2013, namely from 5.4% in 2011 to 3.7% in 2012 and 2.1% in 2013, which were lower compared to Eurozone and EU. As of 2013, Romania got out from under the EU excessive deficit procedure. During 2014-2015 Romania's budget deficit dropped to 0.9% and 0.7% respectively.

However, due to the broad fiscal easing and higher wages in the public sector enforced by the government starting 2015, it is expected that the budget deficit could soar to around 3% in 2016, as the country's economy is seen growing at its potential rate.

Budget deficit (% of GDP)					
2011	2012	2013	2014	2015	2016*
5,4	3,7	2,1	0,9	0,7	2,9

*: estimates

Source: Erste Group Research

Romania has achieved economic growth as of 2011 onwards, however the challenge is to turn this economic growth in real development as there are certain regional gaps among regions in Romania, gaps between the rural and urban areas, and development economic gaps among various categories of population. Moreover the economic growth based mostly on private consumption (the current main engine of growth in Romania) cannot be sustainable on long term due to trade deficits (Romania consumes substantially what others produce).

In order to bridge the existing gaps and achieve sustainable economic growth and development, the Romanian Government needs to increase the efficiency of state action in relation with business sector and in relation with citizens.

In this respect there have been taken measures to continue fiscal consolidation, so that the public deficit would follow a downtrend, to encourage the business environment by funding for various state-aid schemes, by introducing fiscal measures and incentives, by curbing bureaucracy, by simplifying and clarifying legislation, also measures to reform the public investment through a substantial increase of funds allocated to co-financing the European projects within the two European frameworks (2007-2013 and 2014-2020), and measures to stimulate the consumption at the same time with providing social-protection to low-income categories of population.

Forecasts

Annual	2010	2011	2012	2013	2014	2015	2016e	2017e	2018e
Real GDP growth	-1.1	1.1	0.6	3.5	3.0	3.8	4.5	3.2	3.3
Inflation (CPI, avg)	6.1	5.8	3.3	4.0	1.1	-0.6	-1.4	1.4	2.0
Unemployment rate (avg)	7.0	7.2	6.8	7.1	6.8	6.8	6.7	6.8	6.7
Retail sales growth	-7.0	-1.2	4.1	0.5	7.0	8.9	11.0	5.0	5.0
Industrial output growth	5.6	5.6	0.0	7.8	6.1	2.7	2.0	2.8	3.1
Private consumption growth	0.2	1.4	1.5	-2.4	3.7	5.9	8.0	5.0	3.9
Fixed capital formation growth	-1.8	7.7	3.8	-3.3	-3.5	8.8	5.0	4.0	4.5
Percent of GDP									
Trade balance	-7.5	-7.3	-7.2	-4.0	-4.0	-5.2	-6.5	-7.2	-7.7
Current account balance	-4.6	-4.6	-4.5	-0.8	-0.5	-1.1	-2.2	-2.5	-2.7
Foreign direct investment	1.8	1.4	1.6	1.9	1.6	1.9	2.0	2.0	2.0
Budget balance	-8.7	-5.4	-3.7	-2.1	-0.9	-0.7	-2.9	-3.0	-3.0
Public debt	29.9	34.2	37.3	38.0	39.8	38.4	40.4	41.8	42.3
External debt, gross	72.9	74.0	74.4	68.0	63.1	56.7	53.1	50.1	46.6
FX, money market									
USDLCY average	3.18	3.05	3.47	3.33	3.35	4.00	4.05	3.96	3.94
EURLCY average	4.21	4.24	4.46	4.42	4.44	4.45	4.47	4.50	4.49
EURLCY eop	4.26	4.32	4.43	4.48	4.48	4.52	4.51	4.50	n.a.
(percent)									
CB policy rate (avg.)	6.67	6.22	5.34	4.84	3.34	1.75	1.75	1.75	2.00
3m interbank offer rate (avg.)	6.75	5.82	5.34	4.22	2.55	1.34	0.72	0.65	0.83
2Y Yield (average)*	n.a.	n.a.	n.a.	n.a.	2.92	1.64	1.28	1.10	1.28
5Y Yield (average)*	7.30	7.20	6.10	4.98	3.54	2.58	2.41	2.25	2.43
10Y Yield (average)*	n.a.	n.a.	n.a.	5.41	4.40	3.69	3.14	2.85	3.03

Source: Erste Group Research

Notes:

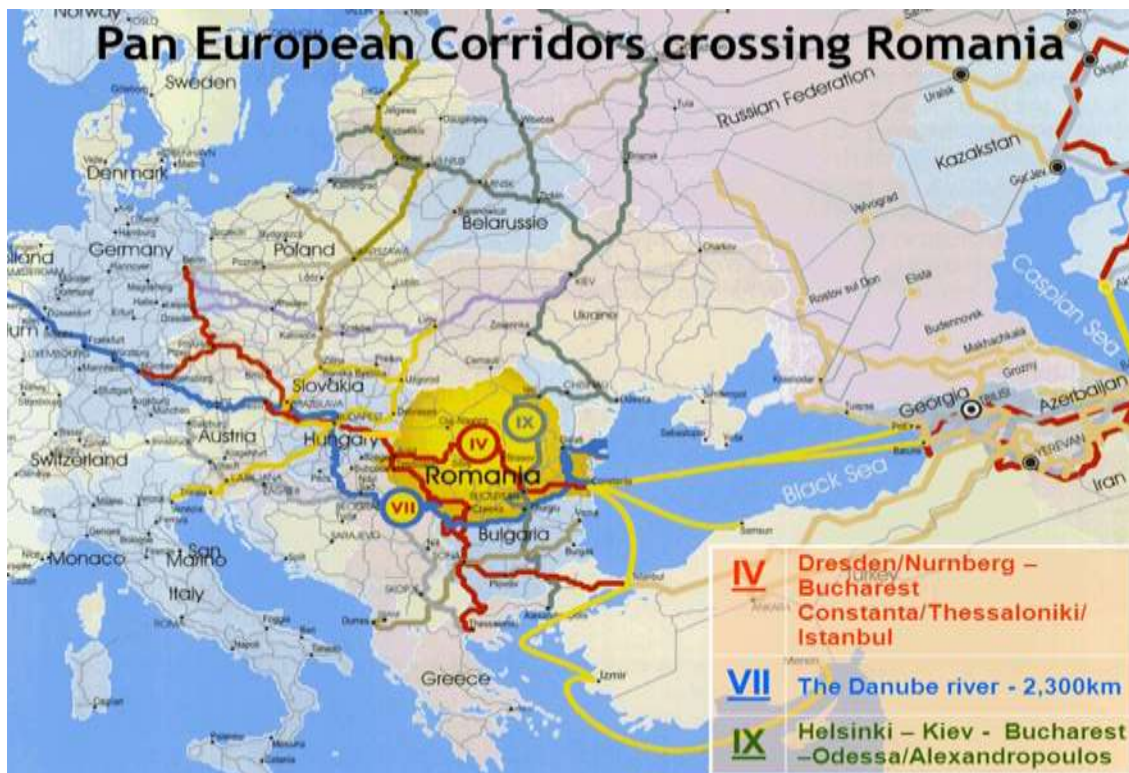
*Information on past performance is not a reliable indicator for future performance. Forecasts are not a reliable indicator for future performance.

Source: Erste Group Research, October 2016

2. Transport infrastructure and transportation

Current situation and expected evolution

Romania is not only a strategic point in Europe with a large market potential in terms of size (238 391 square km, the 9th in EU) and population (about 20 million inhabitants, the 7th in EU), but also, as an EU member, a gateway to three major markets: the single EU, the CIS and the Middle East, at the junction of three Pan-European transportation corridors: IV (which links Europe from West to East) – VII (inland water transportation on the Danube) – IX (links Europe from North to South).



Romania enjoys a wide range of transportation options: road (86,080 km), rail (approximately 20,000 km in total, the 7th largest network in the EU, out of which 10,770 km in use), naval (32 ports – on the Black Sea, mainly through Constanta port, and along Danube River 1075 km) and air (14 airports), however the infrastructure is amongst the least developed in Europe. Although there have been some major transport investments, Romania continues to experience accessibility and connectivity constraints due to poor quality of infrastructure.

Transport infrastructure quality in Romania, in 2014

Indicators	Ranks	Note Min/Max	Average
Quality of overall infrastructure	88	2,0/6,64	3,8
Quality of roads	121	1,92/6,61	2,8
Quality of railroad infrastructure	59	1,13/6,70	2,9
Quality of port infrastructure	104	1,28/6,81	3,4
Quality of air transport infrastructure	105	2,11/6,76	3,6

Notes: There were evaluated 144 countries and the marks were given on a scale of minimum 1 and maximum 7
 Source: World Economic Forum, The Global Competitiveness. Report 2014-2015. September 2014, p.319

Through European Infrastructure Programs, Romania will benefit from a modernization and extension of its road, rail and naval capabilities in the framework of development of the Trans-European Transport Network (TEN-T) and the pan-European Transport Corridors in terms of network completion. Availability of EC funding from the structural funds (Cohesion Fund, European Regional Development Fund, Connecting Europe Facility) and Private-Public Partnership will support the development of Romania’s infrastructure. Recently the Romanian Government adopted the Transport Infrastructure Master Plan (MPGT) a strategic document, prior condition for EU funding, setting priorities for the development of the transport sector in Romania for the next 20 years and identifying projects and policies that are required in order to meet the Romanian transport needs.

This is an important step towards building a robust and sustainable infrastructure wherein remove of main transport bottlenecks, reduce of travel time, decrease of number of road fatalities, and improve of energy-efficiency play a significant role. However strong support from authorities and political parties is needed to ensure a long-term development, from project initiation till project completion, which shall aid the economic development of Romania, but also the development of the Pan-European Corridors and the Trans-European Network (TEN-T).



Despite the weak infrastructure, the transportation market has registered growth in recent years due to the overall business development in Romania. Consumption has been on the rise, but also the production as companies have been in favour of regional production due to country’s positioning, a more stable economic environment, more friendly fiscal environment and low costs (especially in the automotive sector, but other industries as well), therefore both international and domestic trade have increased, which has resulted into an upward development rate of both transportation and storage in order to cope with the market demand.

In Romania there are around 70 industrial parks (most significant located in the North-West, Center and South Romania), wherein economic, scientific research, industrial production activities

and services are carried out under a regime of specific facilities, and 6 free Trade Zones, considered to be the best tools for the supply chain through promoting international trade and encouraging new technologies.

As a European Union (EU) member state, Romania enjoys the free trade relations with a large number of countries, including EFTA, CEFTA and Mediterranean countries. Romania adopted the EU Common Trade Policy and accepted the European Commission as a collective negotiating body for important international trade-related matters, particularly negotiations within the World Trade Organization (WTO). Also Romania applies the Community Customs Code (CCC) and the European Commission provisions for implementation of CCC from the accession date (January 1st 2007).

According to the National Institute of Statistics, Romania's volume of international trade in goods (both exports and imports) increased in 2015 as against 2014, however imports were higher than exports. Exports amounted to EUR 54.598 million (+4,1%) and imports amounted EUR 62.968 million (+7,6%) with a trade balance of EUR -8.370 million.

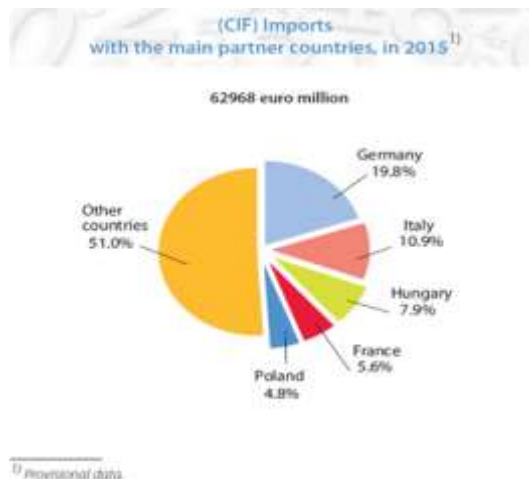
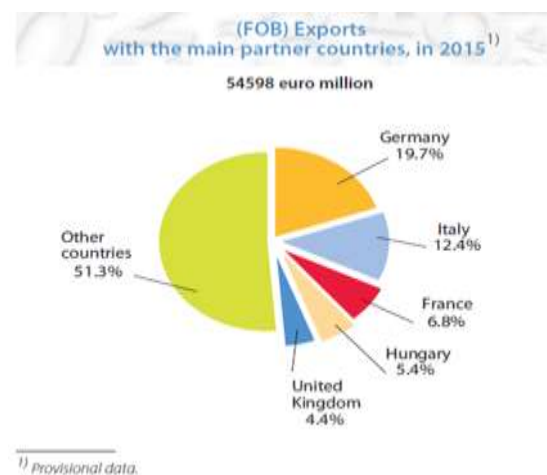
Main partner countries in terms of trade in goods were Germany, Italy, France, Hungary, Poland and UK, the most predominant mode of transport being represented by road.



International trade in goods, by mode of transport

	euro million			
	2012	2013	2014 ¹⁾	2015 ²⁾
FOB exports by mode of transport				
Total	45069	49562	52459	54598
of which:				
Road transport	31597	33457	36230	39134
Maritime transport	8955	10769	10806	10162
Railway transport	1965	2411	2459	1975
Air transport	852	836	1019	1050
Inland waterway transport	541	378	349	361
CIF imports by mode of transport				
Total	54703	55317	58522	62968
of which:				
Road transport	38759	40710	43374	47449
Maritime transport	9237	8414	8940	8584
Railway transport	1724	1527	1436	1508
Air transport	2004	1830	1980	2178
Inland waterway transport	393	289	280	385

¹⁾ Semi-final data.
²⁾ Provisional data.



Due to the high extension of the retail sector, determined by the consumption's rise, domestic trade registered growth amounting to LEI 199902.7 million (approx. EUR 44422.8 million) at the end of 2014, as per information released by the National Institute of Statistics.

Retail¹⁾, by group of goods

lei million current prices

CANE Rev. 2	2012	2013	2014 ²⁾
Total	184880.7	186435.2	199902.7
Food goods	61691.0	63176.2	66696.2
Non-food goods	72374.1	74250.2	81889.1
Retail of fuels	50815.6	49008.8	51317.4

Note: Data resulting from the Structural Business Survey.
Data on 2015 will be available in November 2016.

¹⁾ Excluding the sale, maintenance and repair of motor vehicles, motorcycles and the retail of fuels.
²⁾ Provisional data.

The goods transportation sector in Romania (including road, railway, maritime, inland waterways and air transportation segments) reached 328,4 million tonnes of transported goods in 2015. The biggest percentage of the goods transportation sector in 2015 was represented by road freight transport (60,4%), followed by railway freight transport (16,8%), then by maritime freight transport (13,5%) & inland waterway transport (9,1%), while the lowest percentage was represented by air freight transport.

Goods transport, by mode of transport				
	MU – thousand tonnes			
Mode of transport	2012	2013	2014	2015
Railway transport	55755	50348	50739	55307
Road transport	188415	191486	190932	198638
Inland waterways transport	27946	26858	27834	30020
Maritime transport	39454	43552	43707	44485
Air transport	29	32	32	34
Total	311599	312276	313244	328484

Source: National Institute of Statistics

According to data released by the National Institute of Statistics, year-on-year, in the first quarter of 2016, road freight increased by 32.9% in terms of volume. Out of the total 42.5 million tonnes reported volume, 77.7% represents domestic transport. Rail and sea freight registered single digit drops.

The modal choice of freight transport depends on various factors. In Romania each mode of transport has its own advantages and disadvantages relating to price, speed, safety, weight and reliability. Transport by water is the lowest cost carrier, but also the slowest mode and operates shipments with lowest value while transport by air is the fastest, but the most expensive and operates shipments with highest value. Concerning freight weight, water transport facilitates the highest weight while air transport can operate only the lowest weight.

In between there are the other two transport modes, road and rail, transport by road facilitating shipments with high value and low weight while transport by rail facilitates shipments with low value and high weight.

Road and rail transport, as intermodal, facilitates shipments with range of weight and value, rail being competitive with road over longer distances.

Romania's transportation market reached 7 billion euros in terms of goods freighted and 2 billion euros in passenger transportation and it is in its seventh year of growth.

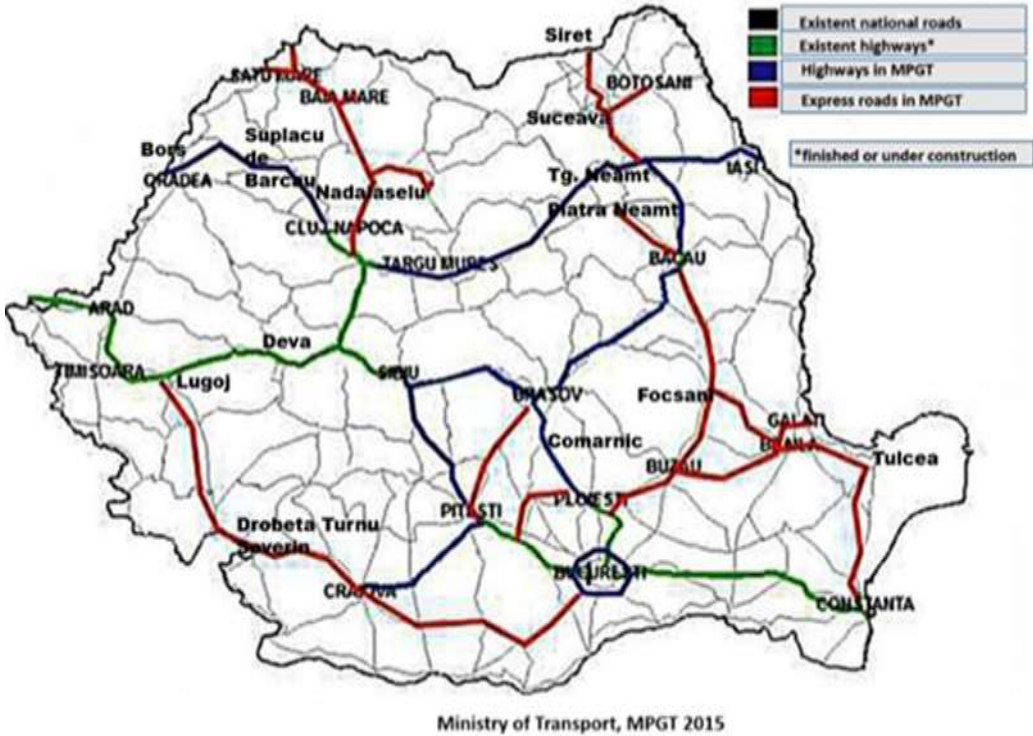
Transport and storage, together with retail and wholesale trade, repair of motor vehicles and motorcycles, hotels and restaurants have been constantly developed and contributed 18% to the GDP formation, with an activity volume up 13.1% (INSSE, Q1 2016).

Development of sectors like e-commerce, retail, FMCG, automotive and construction is expected to speed up and, as a consequence, transportation and storage would witness more development as well. Transport companies are expected to invest in trucks and storage facilities and, at the same time, to go global, expanding their activity towards Western Europe and Asia.

However, building a strong infrastructure (a highway network inter-connected to the European transport corridors, a modern and more-efficient railway network, a better connection of the Constanta port with the hinterland, a better facilitation of traffic in the ports of Danube) would both give Romania the real possibility to become an international hub and would increase the efficiency of the local freight transporters.

2.1. Road

Current status and proposal Master Plan General Transport (MPGT)



The road network in Romania is classified into different categories: national roads (motorways A, European roads E, and main national roads DN), county roads DJ, and communal roads DC.

At the end of 2015, the road infrastructure had around 86,000 km, the motorway and the national road network accounting for just 20% of the entire network.

Length of road network by category		
Road type	Kilometers	Percentage
National roads (A/E/DN)	17,606	20,5
County roads (DJ)	35,316	41
Communal roads (DC)	33,158	38,5
Total	86,080	100

Source: Romania Journal / INSSE

Out of the total national roads (A/E/DN), 35.2% (6,193 km) were European roads, 4.2% (747 km) motorways, 1.6% (281 km) 3 lane traffic roads, 10.3% (1,807 km) 4 lane traffic roads and 0.1% (22 km) 6 lane traffic roads.

From the point of view of the pavement, the structure of public roads network registered 37.9% modernized roads, 24.6% light cover roads and 37.5% stone and ground roads. As to the technical status of the public roads, 41.5% of the modernized roads and 51.2% of the light cover roads had overrun service duration.

A1 Motorway Bucharest – Nadlac is a partially built motorway in Romania (63%) planned to connect Bucharest with the Western part of the country. 385 km (sections: Bucharest – Pitesti / Sibiu – Deva / Lugoj – Timisoara – Nadlac, reaching the Hungarian motorway) out of 576 km are currently in operation while 72 km (section: Deva – Lugos) are under construction and the rest is under planning.

A2 Motorway Bucharest – Constanta (Sun Motorway) is a fully operational motorway of 203 km length in Romania connecting Bucharest with the South – Eastern part of the country (Constanta, a city-port on the shore of the Black Sea).

A3 Motorway Bucharest – Bors, reaching the Hungarian motorway, (Transilvania Motorway) is a partially built motorway in Romania (18%) planned to connect Bucharest with the Transilvania region and the North – Western part of the country. 107 km (sections: partially Bucharest – Ploiesti and Campia Turzii – Gilau) out of 603 km are currently open, 13% is under construction and the rest of 69% under planning.

A4 Motorway is a motorway of 21,8 km length, which serves as a By-Pass for the City of Constanta connecting with the A2 motorway.

Projects concerning construction of motorway connecting Bucharest with the Eastern part of the country, Iasi – Ungheni, are under planning.

The road infrastructure is obviously underdeveloped and outdated, the level of motorway provision being very low comparing to the rest of Europe. The lack of highways along the main

routes of transit makes traffic difficult, crowded, and with relatively low commercial speeds. At the same time there are no express roads in Romania.

Road safety and pollution are also reasons of concern. Romania is still amongst the countries reporting the highest road fatality rates in EU with more than 90 dead per million inhabitants (exceeding the EU average of 51 /source: ETSC, 2015), while more than 13% of the greenhouse gas emissions come from the transport sector, 96% of them being caused by road transport.

Achievement of a high-performance infrastructure in order to ensure efficiency, durability, flexibility and maximum safety conditions of persons and goods is considered a top priority in the context of Romania's development plans. Road projects involving the development of new transport corridors (motorways and expressways) or extending existing roads (modernization projects) in order to increase the road connectivity between Romanian economic growth poles and to improve the travel conditions between regions are currently proposed by the Romanian Government for the next period.

Although the road infrastructure is poor, the transport by road, which is the predominant transportation mode in Romania, shows a slightly ascending trend in terms of freight volume, 2015 totaling an amount of 199 million tonnes, representing 60,4% of the total freight transport.

	M.U.	2012	2013	2014	2015
Road transport					
Transported freight	million tonnes	188	191	191	199
Distance covered by freight	billion tonnes-km	30	34	35	39
National and international passenger transport ⁴⁾	million passengers	262	274	282	276
Distance covered by passengers ⁴⁾	million passengers-km	16901	17082	18339	17471

4) data on bus and microbus transport, excluding local public transport

Source: National Institute of Statistics

Under the current business environment, with fast development rate in terms of production and consumption, road freight is expected to grow with an average 3.1% per year between 2016 and 2020, which is a quicker growth rate than the other freight modes.

Over 1000 trucks run daily on the Romanian roads transporting to modern retail in order to cope with the market demand. However the trucking sector in Romania is competitive, from the entire Romanian fleet, a high percentage of trucks provides services to the European market.

According to market sources, a Romanian highway network interconnected to the European transport corridors could increase the efficiency of the local freight road transporters by up to 20%. Transilvania highway that will link the Centre and the Western regions of the country could lead to an expenditure decrease by 10-12% for the local freight transporters that perform international expeditions.

Main players in road transport sector:

Top – the biggest road transporters of goods
(turnover mil. EUR – profit mil. EUR – no of employees)

Topul celor mai mari transportatori rutieri de mărfuri

Companie	Cifra de afaceri (mil. Euro)	Profit (mil. Euro)	Numar de angajati
AQUILA PART PROD COM	134,1	1,4	1.839
CARRION EXPEDITION	85,1	2,5	1.125
TRANSCONDOR	72,3	0	723
DUVENBECK LOGISTIK	56,6	2,6	641
TOTAL N S A	44,3	0,5	368
INTERNATIONAL LAZAR COMPANY	42,3	0,9	461
DUNCA EXPEDITII	41,0	2,4	630
DUMAGAS TRANSPORT	38,6	0	548
ARCESE TRANSPORT	33,6	0,4	337
BALADEI THIRDWAY TRANSPORT	31,4	0	415
HARTL CARRIER	30,6	1,1	47
J.T. GRUP OIL	30,6	1	41
DIANTHUS COMPANY	30,1	3,6	290
HOEDLMAYR-LAZAR ROMANIA	30,0	0	149
RAVITEX	29,1	1,5	382
COM DIVERS AUTO RO	28,9	0,5	380
TRANS BITUM	28,8	0,3	266
TIR EXPRESS	28,5	0,07	244
HESSERS (Belgium)	28,3	0,2	450
INTERNATIONAL ALEXANDER	26,5	1,1	379

Sursa: CNRC

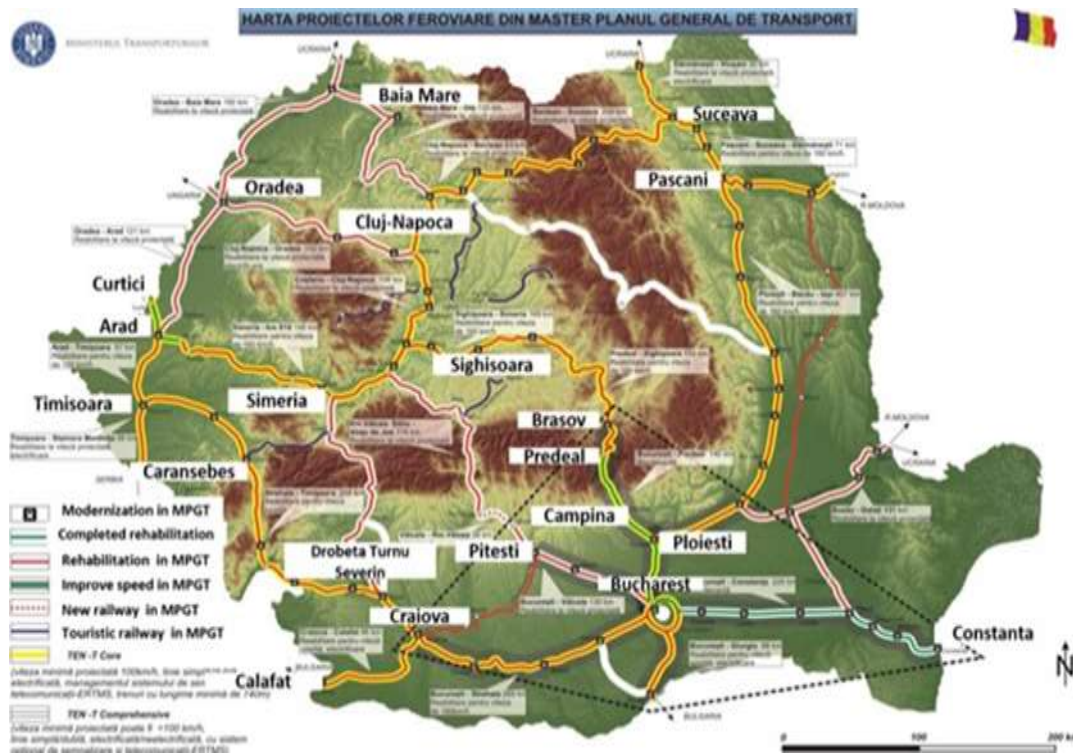
Source: Financial Newspaper (Transport & Logistics 2016)

Romanian authorities in road sector:

- Romanian National Company of Motorways and National Roads
Dinicu Golescu 38, sector 1, Bucharest
+4021 264 32 47
office@andnet.ro
www.cnadnr.ro
- Romanian Automotive Register
Calea Griviței, no. 391A, sector 1, Bucharest
+4021 202.70.00
www.rarom.ro/en/
- Romanian Road Authority
Dinicu Golescu 38, floor 8, sector
1, Bucharest
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2.2. Railway

Current status and proposal Master Plan General Transport (MPGT)



The total rail Romanian route network under exploitation amounts at about 11,000 km (the 7th largest in the EU), out of which about 8000 km (72%) is single track, while the average in the EU is 59%, and about 3000 km (27%) is double track. It comprises about 1000 stations, 200 tunnels and 4000 bridges. Only 37% of the rail network is electrified comparing to the EU average of 54%.

Rail Infrastructure Statistics

Length of rail network	10,818 km	Number of level crossings (number of which are automatic)	5,119 (1,082)
Double track	2,909 (27%)	Number of points/switches	20,868
Single track	7,771 (72%)	Train control (signalling) infrastructure:	
Electrified (overhead 25 Kv)	4,002 (37%)	Electronic interlocking systems	28
Non-electrified	6,816 (63%)	Relay interlocking systems	618
Number of stations	965	Installations without interlocking	354
Number of tunnels	177	Automatic line block:	
Length of tunnels	6,809	Number of installations	577
Number of bridges	4,216		
Number of culverts	13,961		

Source: CFR SA: CFR Network Statement

According to the National Institute of Statistics, at the end of 2015, the density of rails per 1,000 km territory was 45.2‰. The highest densities were registered in Bucharest-Ilfov (153.2‰) region, West region (58.9‰) and in the South-East region and in the North-West region (48.8‰).

Currently only a small proportion of the total railway network is rehabilitated: Predeal – Campina / Campina – Ploiesti – Bucharest / Bucharest – Constanta and HU-RO Border - Curtici – Arad km 614 km. Some railway routes are under execution: Simeria – Coslariu / Coslariu – Sighisoara, some others are under tender procedure or under preparation. Modernization of 35 railway stations are finalized while modernization of 47 railway stations are in preparation.

The rail system in Romania is in an advanced state of disrepair due to a chronic lack of maintenance, which has led to low speeds, poor frequency and ineffective operations. Despite a fully open market, the period between 1990 -2010 was marked by strong declines (-80%) in terms of volume of rail transport both for passengers and goods.

However for the period 2010–2015 the market for rail stabilized, the transport by rail even showing a slight positive evolution. At the end of 2015 the volume of freight transport by rail amounted to 55 million tonnes, which represented 16,8% of the total freight transport (2nd place after road transport).

	M.U.	2012	2013	2014	2015
Railway transport					
Railway engines	number	1796	1795	1779	1795 ¹⁾
Waggons	thou waggons	44	40	35	34 ¹⁾
Carriages	number	4232	4025	4001	3928 ¹⁾
Transported freight	million tonnes	56	50	51	55
Distance covered by goods	billion tonnes-km	13	13	12	14
National and international passenger transport	million passengers	58	57	65	66
Distance covered by passengers	million passengers-km	4571	4411	4976	5149

1) provisional data

Source: National Institute of Statistics

Under current growing trend in exports (especially agricultural goods and heavy machinery) the rail freight will continue to see a good year in 2016 and beyond. Moreover, Romania being a relatively large country, is suited to rail transport. Goods that have to be transported large distances could be transported more economically by rail than by road. For the coming period Romania will focus on increasing the competitiveness of rail transport on the domestic market and the integration of the Romanian railway system in the Single European Railway Area. Therefore some of the freight flows would be relocated from road to rail.

The high growth potential of transport by rail can be achieved only through sustained investments in infrastructure. Rail projects focused on upgrading the rail infrastructure, in particular the TEN-T network sections on the Romanian territory and the integration in the European network of

high-speed rail transport, projects for connecting Bucharest with the largest industrial centres in the South of Romania, are to be carried out in the next programming periods (2015-2020 and 2020-2036): modernization of conventional railway lines, electrification, rehabilitation of bridges and tunnels, safety projects, development of cross-border railway lines together with acquisition of new rolling stock & locomotives.

The TEN-T network covers about 20% of the total Romanian railway routes length (the Rhine-Danube corridor and the Orient/East Med corridor) and accommodates about 50% of the total rail traffic by volume.

Top – the biggest rail transporters of goods
(turnover mil. EUR 2014 – profit mil. EUR 2014 – no of employees 2014
turnover mil. EUR 2013 – profit mil. EUR 2013 – no of employees 2013)

Topul celor mai mari 10 transportatori de marfă pe calea ferată (mil. euro)

Companie	Cifra de afaceri 2014	Profit 2014	Nr. angajați 2014	Cifra de afaceri 2013	Profit net 2013	Număr angajați 2013
CFR Marfă	208,6	-6,1	7.622	209	-59	8.767
Grup Feroviar Român (GFR)	157,5	7,0	2.133	166	8	2.201
Unicom Tranzit SA	56,1	2,3	811	49	1,2	879
Rofersped SA	41,6	1,1	33	45	0,4	31
Transferoviar Grup	38,6	0,3	625	36	0,6	540
DB Schenker Rail România	36,1	3,0	434	29	0,9	337
Unifertrans SA*	N/A	N/A	N/A	21	14,6	436
Trans Expedition Grup	11	0,6	269	16	0,6	473
Trade Trans Raillogistics	9,5	-0,05	25	17	-0,04	26
Servtrans Invest	12,6	-4,1	223	15	27,3	347

*cele mai recente date ale companiei sunt valabile pentru anul 2012
Notă: Firmele care apar în top au cod CAEN 4920 - transport de marfă pe calea ferată.
Sursă: Ministerul Finanțelor

Source: Financial Newspaper (Transport & Logistics 2016)

*CFR SA – state-owned Romanian national operator for passengers (CFR Calatori) and goods (CFR Marfa), also responsible for the maintenance of the rail network.

The rail passenger market and the rail private market have been open to private undertakings since 2004, and respectively 2001. In 2012 the passenger public operator (CFR Calatori) had about 90% of the market, the rest being covered by private operators, while the freight public operator (CFR Marfa) had a market share of 55%. The freight public operator (CFR Marfa) was to be privatized by the end of 2016 at the request of International Monetary Fund, however the Romanian Government postponed the process till the first term of 2018.

Romanian authorities in rail sector:

- Romanian National Rail Company
Dinicu Golescu street, no. 38, sector 1, Bucharest
+4021 225.11.12

office@cfmarfa.com
www.cfmarfa.cfr.ro

- Romanian Railway Authority
Calea Grivitei, Nr.393, sector 1, Bucharest
+4021 307.79.00
www.afer.ro

2.3. Maritime and inland waterways

Current status and proposal Master Plan General Transport (MPGT)



The maritime and inland waterway infrastructure comprises 32 river and sea ports, on the Black Sea, on the waterway navigable canals, and along the Danube River together with the secondary navigable branches of the Danube.

The maritime transport is provided by the direct access to the Black Sea through the three maritime ports: Constanta, Mangalia and Midia (the Port of Constanta being the main Romanian port, among the first ten European ports). The inland waterway transport, focused on the Danube river (1075 km along Romania), is provided through 29 inland waterway ports, the largest being the ports of Galati, Braila and Tulcea, located on the maritime section of the Danube. They are part of the TEN-T Network and a series of ports on the river Danube, the largest of which are Giurgiu, Oltenita, and Droberta Turnu Severin.

The navigable canals have been developed between the Danube and the Black Sea, including the main canal, Danube-Black Sea Canal which ends in Constanta Sea Port, and Poarta Alba-Midia

Navodari Canal which links the main canal with the Midia Port. The Danube-Black Sea Canal offers access to both the Black Sea and the North Sea through the Rhine-Main-Danube Trans-European Waterway, connecting the Port of Constanta and the Port of Rotterdam. A third canal is Bega Canal and traverses Romania and Serbia, discharging through Tisa in the Danube River.

The Port of Constanta, located on the Western coast of the Black Sea, is the most important commercial sea and river port in Romania (3,926 ha, out of which 1,313 ha land & 2,613 ha water; 140 operating berths) and has a handling capacity of over 120 million tonnes/year. Its geo-strategic position, at the crossroads of the trade routes, is enhanced by connections with all transport modes: road, rail, inland waterway and air. The importance of the Port of Constanta is emphasized by the connection with the Pan-European Transport Corridors: IV-VII-IX, playing a major role in the development of inland transport of goods coming from Far East towards destination in Central Europe.

The Ports of Galati, Braila and Tulcea, located at the intersection of the maritime and fluvial Danube, are the largest inland ports (Galati – 864,131 sqm, 56 operating berths; Braila – 389,630 sqm, 25 operating berths; Tulcea – 82,764 sqm, 41 operating berths) and altogether have a handling capacity of about 34 million tonnes/year, out of 52 million tonnes/year, the total handling inland waterway capacity in Romania.

Although there have been performed some modernization works in the recent years, the Romanian port infrastructure like dams, berths, stone packing, port basins and port areas faces with an advanced state of physical degradation due to very old infrastructure in some ports, intensive and longtime exploitation, without realizing the maintenance and repairing works, and also no sufficient links with other transport modes. Regarding the waterway transport there are many sectors with navigation bottlenecks in Romania generated by insufficient water depths during dry seasons, lock size or clearance under bridge.

According to the National Institute of Statistics, the volume of loaded and unloaded goods both in the maritime ports and inland ports has lately increased, at the end of 2015 amounting to 44,5 million tonnes relating to maritime and 30 million tonnes related to inland. The vast majority of the goods transported by water in Romania are bulk goods. The Danube carries 3 types of traffic: domestic, transit and import/export, at the end of 2015 totaling 13,2 million tonnes for domestic, 5,5 million tonnes for transit and 11,2 million tonnes for international.

Harbour freight transport

thou tonnes

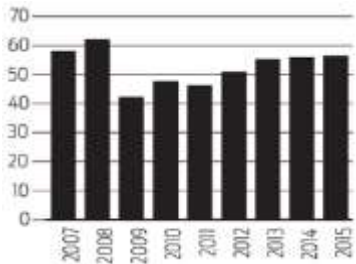
	2012	2013	2014	2015
Maritime transport	39520	43577	43753	44533
- loaded goods	21199	26765	25349	24954
- unloaded goods	18321	16812	18404	19579
Inland waterway transport	27946	26858	27834	30020
- international	9423	9798	8985	11216
- national	13292	12848	14421	13246
- transit ¹⁾	5231	4212	4428	5558

¹⁾ It includes data on the transport between the Bulgarian harbours (transit transport for Romania), in accordance with the European legislation.

Source: National Institute of Statistics

Due to Romania’s position relative to the Danube, the proportion of total inland freight in Romania transported by water is the second highest in the EU. However Romania compares unfavourably to Holland which has a similar position relative to the Rhine, the key difference between the countries being the lack of modern facilities in Romania.

The Port of Constanta, the major maritime and river port in Romania, is the most developed and offers the widest range of facilities. The total traffic in the Port of Constanta was of 56.3 million tonnes in 2014, showing a slightly increasing trend, and was generated mostly by dry bulk and cereals (over 64%), followed by liquid bulk, and then by general cargo. Constanta handles over 70% of the total freight in the Romanian ports.



Port of Constanta

In addition the Port of Constanta is a major regional container port (but not one of the top 20 container ports by volume in Europe), the modal share of containers leaving Constanta (excluding transiting) being estimated as currently: 56% - road, 41% - rail, 3% - barge. Constanta has a large hinterland and acts as a transshipment point for many goods, however there is much potential to expand its throughput as long as the road, rail and water links are improved.

Romania may play a leading role in connecting Central Asia and Central Europe through the Danube river and the Port of Constanta, which sum up an excellent transport system. Improvements of the infrastructure of both maritime and inland waterway would add benefits for the entire economy of Romania in an European context. Infrastructure projects focused especially on TEN-T ports (Primary Economic Network) are under preparation.

Port operators

(turnover mil. EUR 2014/2013 – profit mil. EUR 2014/2013 – no of employees 2014/2013 – shareholders)

Piața serviciilor portuare							
Companie	Cifra de afaceri		Profit net		Număr salariați		Acționari
	2014 (mil. euro)	2013 (mil. euro)	2014 (mil. euro)	2013 (mil. euro)	2014	2013	
CN ADMINISTRAȚIA PORTURILOR MARITIME	62,3	60,0	15,9	14,7	870	881	Min. Transporturilor, FP; Consiliul Local Constanța
CONSTANȚA SOUTH CONTAINER TERMINAL	4,5	38,8	12,6	10,2	459	476	DP World (Dubai)
OIL TERMINAL	24,3	5,3	0,1	0,0	1016	1.025	AVAS
NORTH STAR SHIPPING	22,1	25,4	4,8	5,9	151	149	Lhvu Ghebaur, Ioan Vasile, Alfred C. Toepfer
CHIMPEX	24,2	23,1	6,2	6,0	245	250	Azomureș
UNITED SHIPPING AGENCY	18,2	14,6	6,4	4,4	290	246	Cătălin Trandafir, Mihai Felescu
COMVEX	16,0	39,3	2,1	1,6	210	235	Solidmet SRL, ArceionMittal
SOCEP	14,3	12,3	1,7	0,8	450	397	Celco Constanța, Stere Samara
MINMETAL	10,4	12,4	0,4	1,5	188	189	North Star Shipping
ROMPORTMET	6,0	6,0	0	0,6	63	174	ArceionMittal

Sursa: Ministerul Finanțelor

Source: Financial Newspaper (Transport & Logistics 2016)

Romanian authorities in maritime and inland waterway sector:

- National Company Maritime Ports Administration SA Constanta
Incinta Port Constanta, Gara Maritima
+40241 611 540
dirgensec@constantza-port.ro
www.portofconstantza.com
- National Company Maritime Inland Port Administration SA Galati
34 Portului street, Galati
+40236 460 140
apdm@apdmgalati.ro
www.romanian-ports.ro
- National Company Fluvial Inland Port Administration SA Giurgiu
Sos. Portului 1, Giurgiu
+40246 213 003
secretariat@apdf.ro
<http://www.apdf.ro/>
- Administration of the Navigable Canals
1 Ecluzei street, Agigea
+40241 738 505
compania@acn.ro
www.acn.ro

2.4. Air

Current status and proposal Master Plan General Transport (MPGT)



Currently the air infrastructure in Romania consists of 14 airports permanently open for traffic. They offer more than 130 direct flights to 76 destinations in 31 countries and also ensure a strong internal connection providing easy access to every region in the country. One airport is under construction, namely the one in Brasov (Center Romania) which, once finished, would enhance business development in the region. The most important airports are the ones in Bucharest (major international airport), Timisoara and Constanta (big international hub airports) and are operated by the Romanian government, while the others are operated by local counties.

During the years, the air infrastructure in Romania has been involved in strategic programs for development, financed both from EU structural funds and domestic funds. Romania has significant infrastructure capacity given current air traffic demand, which has been witnessed significant growth year by year both for passengers and goods. At the end of 2015, according to the National Institute of Statistics, 34,3 thousand tonnes of goods were transported by air.

Airport passenger and freight transport					
	M.U.	2012	2013	2014	2015
Passengers	thou passengers	10728	10706	11592	13273
Freight (including mail)	tonnes	29334	31629	32194	34320
Aircraft movements	number	138744	127743	129509	138598

However, airports still need to be modernized and equipped in order to respond to international standards of safety and security. At the same time, upgrading of the air infrastructure, developing cargo handling facilities and extension to the runway, terminals, signaling systems etc. becomes top priority in order to cope with the upcoming demand. Expansion of manufacturing (especially manufacturing companies requiring complex or rapidly moving supply, such as electronics and pharmaceuticals) coupled with the increase of higher value consumer goods make freight transport by air be an important mode transport, fostering trade and commerce. Moreover the poor development of the highway infrastructure in Romania, determine the big freighters to offer the solution to combine airfreight with trucking.

The modernization and development of the Romanian airports, with a special focus on improving the TEN-T connectivity of landlocked territories and the promotion of regional economic development are the main objectives for the next programming period in Romania.

Further air infrastructure modernization projects are under preparation stage as proposed in the Master Plan General Transport.

Taking into consideration the amount of traffic and general airport activity, Bucharest is and remains the centre of the airfreight market, Bucharest Henri Coanda airport being the most active airport and also home to the major carriers, such as Tarom (Romanian Airline), British Airways, Lufthansa, Austrian Airlines. Recently Romania has experienced significant market penetration from low-cost carriers (higher than 40%), including Wizz Air, Blue Air, Ryanair, however Tarom continues to be the only carrier providing services to some ten destinations in the country, in addition to multiple destinations overseas.

While Italy is number 1 as country destination, followed by Germany, UK, Spain, and France, Belgium has witnessed the most significant growth in weekly capacity, 65% or an additional 2,345 seats, due in part to Ryanair adding daily flights between Bucharest and Charleroi. Nonetheless, Blue Air has also contributed to the increase, as it introduced twice-weekly flights from Bacau to Brussels.

Romanian authorities in air sector:

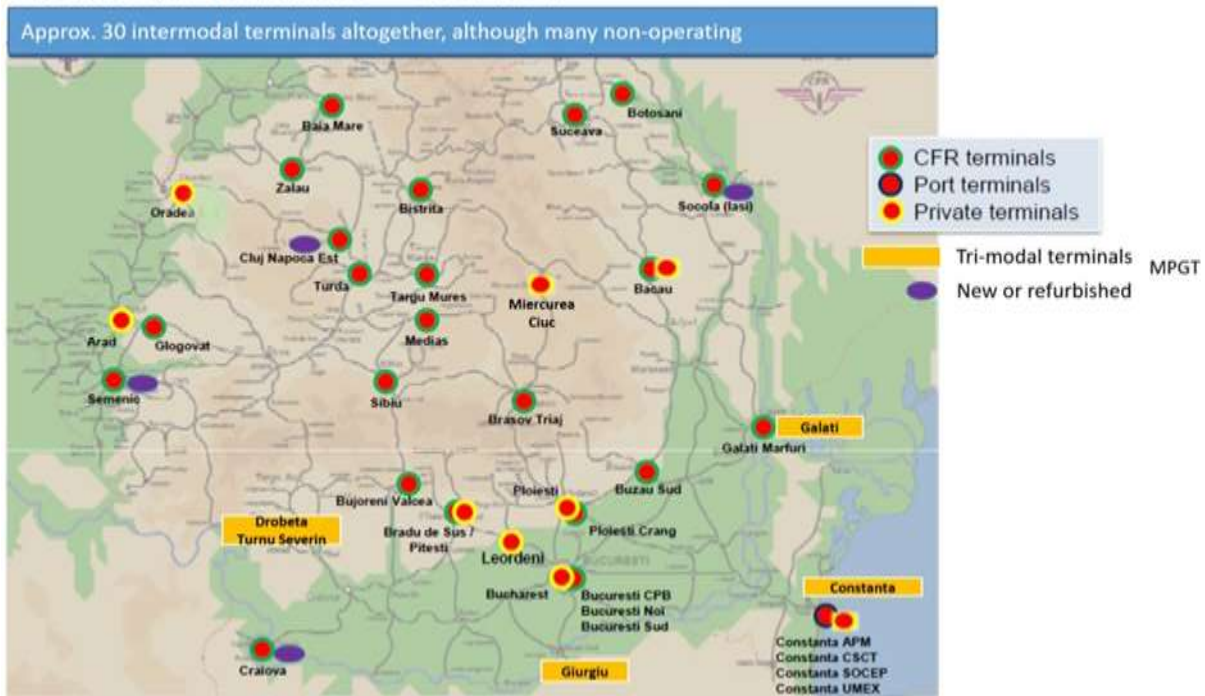
- National Company Airline Transport Tarom
224F Calea Bucurestilor, Otopeni, Ilfov
+4021 201 47 00
secregen@tarom.ro
www.tarom.ro
- Romanian Civil Aviation Authority
38-40 Bucharest-Ploiesti ave, sector 1, Bucharest
+4021 208 15 08
www.caa.ro/
- Romanian Air Traffic Services Administration

10, Ion Ionescu de la Brad blvd, sector 1, Bucharest
+40 21 2083 100
romatsa.office@romatsa.ro
www.romatsa.ro/en

2.5. Intermodal

Current status and proposal Master Plan General Transport (MPGT)

Intermodal terminals - overview



Source: KombiConsult / intermodal-terminals.eu / MPGT

Intermodal transport, meaning road/rail and water/rail where the trunk haul is made by rail, represents the future for modern rail freight transport. Romania is aiming at increasing rail transport competitiveness on the domestic market and is focusing on shift to rail of freight road transport.

Currently the Romanian transport sector provides for various forms of logistics concepts including combined transport operators for rail/road and even barge/road transport.

There are more than 30 intermodal terminals in Romania, out of which about 25 are owned by CFR Marfa (National Romanian Freight Rail Transport) and some others are private. Most of the terminals owned by CFR Marfa are in poor condition due to lack of maintenance or improper usage, and actually non-operating.

Operating CFR Terminal (out of a total of about 25)		Operating Private Terminal* (*not exhaustive)	
Location	Terminal Operator	Location / name	Terminal Operator
Suceava	Rofersped	Ploiesti Alianso Terminal	Alianso Terminal (BE)
Bacau		Bucharest Intermodal Terminal	Tibbett Logistics
Brasov Triaj		Bucharest Sud	Rocombi
Zalau Nord		Leordeni Center Tea&Co Terminal	TTD Timber
Turda		Constanta Port	APM Terminals
Bucuresti Progresu		Constanta South Container	DP World
Bucuresti Sud		Arad Railport Container Terminal	Railport Arad
Cluj-Napoca Est		Miercurea Ciuc	Rail Container
		Oradea	*Intermodal Vest (joint-venture P&O Ferrymaster and Transmec) *Intercarpattia
		Bacau	Rail Container
		Suceava	Rail Container
		Ploiesti	Rail Container
		Arad Trade Trans Terminal	Trade Trans Terminal

The bad condition of rail infrastructure in Romania, characterized by lack of maintenance, small proportion of electrified lines and reduced speeds, coupled with a low degree of containerization caused by lack of investment in inland terminals, lack of modern supply chain, lack of modern rail wagons designed for efficient container operations, make the use of intermodal transport in Romania, although following an increasing trend in recent years, be far below its potential.

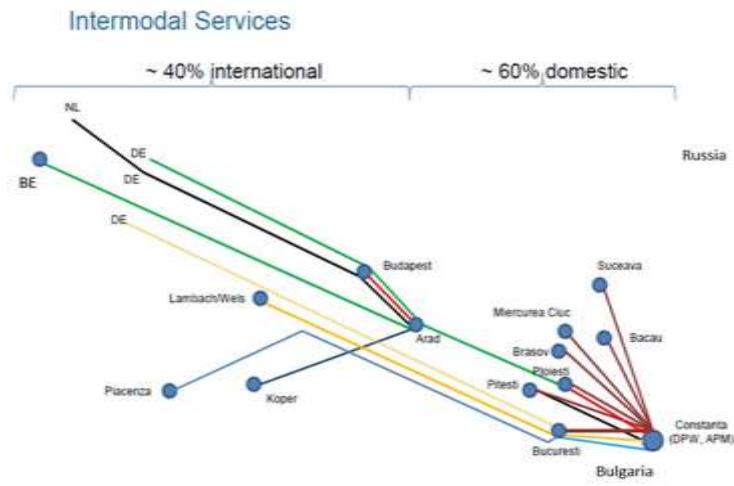
After a dramatic drop of total freight intermodal transport volume in 2010 due to the global economic crises, -44% comparing to 2008, the intermodal freight transport has recovered since 2011 and continued to raise. The annual railway transport of goods (containers and swap bodies) in intermodal transport units registered 2,61 million tonnes in 2011, the percentage of total rail freight containers being 4,6%. Romania has significantly low levels of freight in containers which is transported by rail compared to other European countries. The growth of intermodal transport in Romania is directly depending on the country's own economic performance and not generated by transit traffic. However Romania being a rather large country with a geo-strategic location could enhance transit traffic.

The Black Sea Port of Constanta is home to the largest container port in the Black Sea and is strategically situated at the mouth of the Danube Black Sea Canal which feeds freight into the heartland of Central and Eastern Europe. The container hinterland transport from and to Constanta is the biggest part of intermodal transport in Romania. The modal share of containers leaving Constanta (excluding transiting) is estimated as currently at 56% road, 41% rail, and 3% barge.

In Romania domestic services, the backbone of intermodal transportation represent $\pm 60\%$ of total intermodal freight transport, while the international services, mainly focused on Western Union, in particular Belgium, represent $\pm 40\%$.

*Genk – Curtici / Genk - Oradea

*Zeebrugge – Curtici / Zeebrugge – Oradea



Source: KombiConsult

The Master Plan General Transport incorporates proposals to rehabilitate and modernize the railway infrastructure, in particular the TEN-T network sections, and also to develop intermodal/multimodal terminals in certain identified core-locations: 4 major tri-modal terminals located at Constanta and the major river ports (Galati, Giurgiu, Drobeta Turnu Severin), together with 10 more terminals across the country, which may be either refurbishments of existing terminals or new builds with modern facilities.

The operation of intermodal terminals is closely integrated with the logistics industry, which is 100% privately run. Future intermodal developments will be most probably designed, built and operated by the private sector in order to fully exploit their potential.

Railway undertakings with focus on intermodal transport

- CARGO TRANS VAGON
- CFR Marfa S.A.
- DB Schenker Rail Romania
- Grup Feroviar Roman (GFR)
- Rail Cargo Romania
- Servtrans Invest S.A.
- Transferoviar Grup (TFG)
- UNICOM TRANZIT
- VEST TRANS RAIL
- VIA TERRA SPEDITION

Source: KombiConsult, Club Feroviar

Intermodal Operators with "regular" services

-
- Adria Kombi
 - Adria Transport d.o.o.
 - CFR Marfa
 - Eurolog Srl
 - Hupac
 - IFB
 - Kombiverkehr
 - Rail Container S.R.L.
 - RCO (Hungaria Intermodal Kft)
 - Rocombi
 - Rom-Rail
 - Tibbett Logistics

Source: 2012 Report on Combined Transport in Europe, KombiConsult analysis

While road freight currently dominates the transport mix in Romania, its freight transport sector is more diversified than most, with inland waterways also having great potential. Thanks to the

Danube and the Port of Constanta, inland waterways will continue to play a vital role in the freight mix and is forecast to account for about 10% over the next few years.

Location of ports and intermodal operations (MPGT)

No.	Terminal	Location	Operator
1	Port of Constanta	Constanta	DP World Constanta South Container Terminal
			APM Terminals
			SOCEP
			UMEX
2	Port of Galati	Galati	S.C Port Bazinul Nou S.A Galati
			S.C Port Docuri S.A Galati
			S.C Romportmet S.A Galati
			S.C Trans Europa S.A Galati
			S.C Trans Europa Port SRL Galati
			S.C Unicom Oil Terminal S.A Galati
3	Port of Tulcea	Tulcea	S.C Deltanav S.A Tulcea
			S.C Frigorifer Tulcea
			S.C Navrom-Delta S.A Tulcea
4	Port of Braila	Braila	S.C Hercules S.A Braila
			S.C Trans Europa Port SRL Galati
			S.C Cerealcon S.A Braila
			S.C Romanei S.A Braila
5	Port of Giurgiu	Giurgiu	C.N. A.P.D.F. S.A. Giurgiu
6	Port of Calarasi	Calarasi	C.N. A.P.D.F. S.A. Punct Lucru Calarasi
7	Port of Oltenita	Oltenita	C.N. A.P.D.F. S.A. Punct Lucru Oltenita
8	Port of Corabia	Corabia	C.N. A.P.D.F. S.A. Punct Lucru Corabia
9	Port of Drobeta Turnu Severin	Drobeta Turnu Severin	C.N. A.P.D.F. S.A. Drobeta Turnu Severin
10	Port of Calafat	Calafat	C.N. A.P.D.F. S.A. Agentia Calafat
11	Port of Orsova	Orsova	C.N. A.P.D.F. S.A. Punct Lucru Orsova

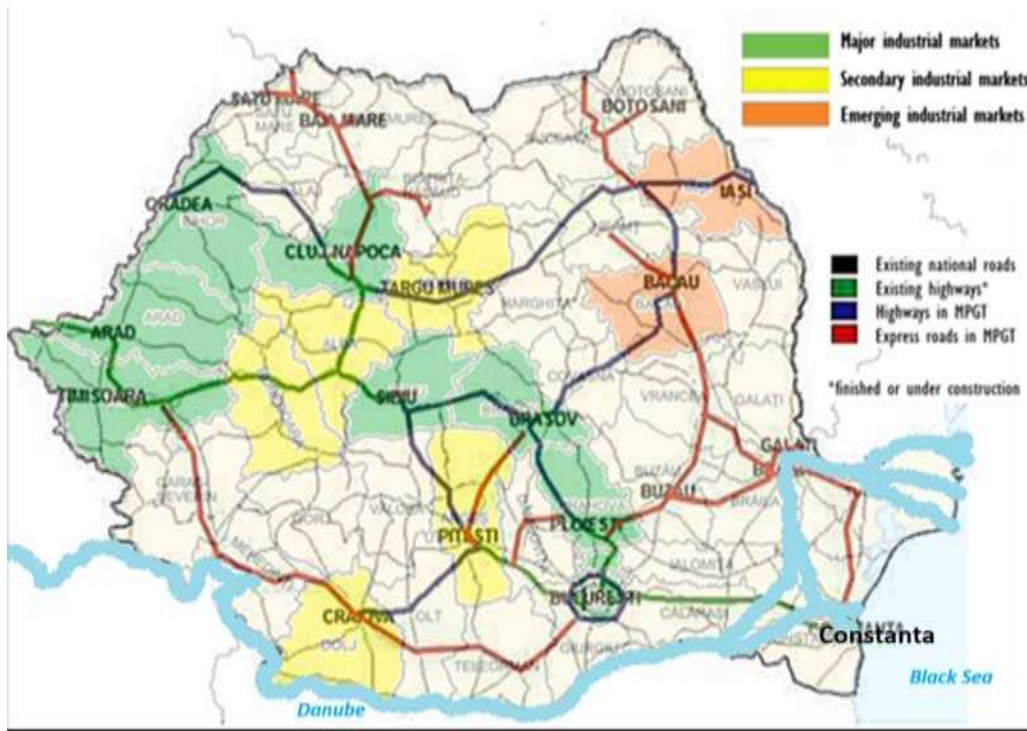
Source: AECOM Analysis

Romanian authorities in intermodal sector (infrastructure manager):

- Romanian National Rail Company
 Dinicu Golescu street, no. 38, sector 1, Bucharest
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- Romanian Railway Authority
 Calea Grivitei, Nr.393, sector 1, Bucharest
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www.afer.ro

3. Logistics and industrial market

Current situation and mid-term expected evolution



Romania has the potential to position itself as a strategic regional trade and logistics hub for Central and Eastern Europe due to its geo-strategical location at the crossroads of the main trade routes between Western Europe and Asia, between South Europe (the Mediterranean) and Northern Europe. The Danube-Black Sea Canal facilitates river and sea navigation and offers access to both the Black Sea and the North Sea through the Rhine-Main-Danube waterway, connecting the Port of Constanta and the Port of Rotterdam.

Romania's trade-related infrastructure consists of roads, railways, inland waterway transport, ports, airports and warehousing & trans-loading facilities.

The logistics and industrial market in Romania started to grow particularly after Romania's accession to the European Union (January 2007), due to market penetration of foreign investors in various production segments (mainly automotive), attracted by lower costs, and also due to some retail expansion (especially in Bucharest).

The logistics sector slowed down during and after the crisis years, however since 2015 it has come under spotlight. Measures taken by the Romanian government concerning fiscal relaxation and incentives, along with the wage raise for the population have triggered a rebound in investments and an increase of private consumption, which have led to production/exports growth and retail expansion. Booming investments in manufacturing and retail, coupled with the presence of numerous automotive companies, have resulted into an increased demand for logistics facilities.

The most attractive locations for the industrial and logistics centres in Romania have been the 3 highways: A1 (Bucharest-Nadlac/West Romania), A2 (Bucharest-Constanta/South-East Romania) and A3 (Bucharest-Bors/North-West Romania), due to the good connections with the rest of Europe, however other regions in the country are being targeted as well.

Romania currently has 73 industrial parks, placed under both private and public ownership, which offer access to utilities and particular benefits packages, however it stands far behind its potential and also behind some other countries in Central and Eastern Europe.



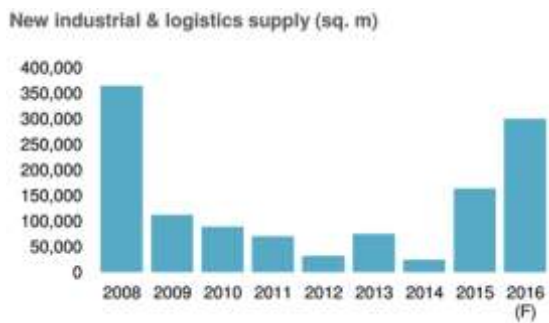
Under the current business and economic development in Romania (output/exports growth, consumption's rise, which translate into a constant GDP growth as well) the logistics sector is very promising. Companies active in logistics/distribution and retail sectors are looking for options to expand their operations, which implies also the need of new logistics spaces. Developers of industrial and logistics parks are exempted from land, building and urban planning taxes as well as for land destination changing.

In 2015 the highest level of new supply of industrial and logistics spaces is noticeable since 2008, namely 164,000 sqm new delivery, an increased transactional activity, the net take-up being higher by 44% comparing to previous year, and a deep decrease of vacancy rate, reaching 5%. The most dynamic occupiers were companies active in the retail sector (37%), followed by distribution & logistics (30%) and production sector (26%). The upward trend has been followed also in 2016 with more than 300,000 sqm new delivery expected, a robust transactional activity and an overall tendency of decrease of vacancy rate.

At the end of H1 2016, Romania's modern industrial and logistics stock amounted 2.3 million sqm.

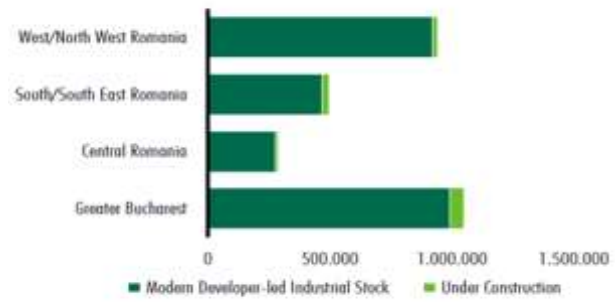
Bucharest dominates the country's industrial and logistics sector with a stock higher than 1 million sqm (45%), and it is popular due to its strategic location – 225 km from the Port of Constanta, 850 km from Budapest, and at the junction of two Pan-European Corridors.

The existing supply of industrial and logistics spaces outside Bucharest amounts 1.29 million sqm, the largest regional markets being Timisoara/West Romania, Ploiesti and Pitesti/South Romania, Cluj/North-West Romania and Brasov/Center Romania.



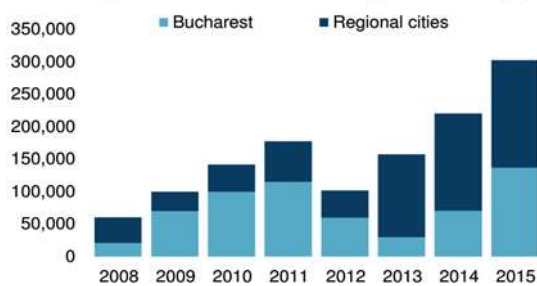
Source: DTZ Research

Industrial & Logistics Modern Stock, H1 2016



Source: CBRE Research, Q2 2016

Net take-up evolution Bucharest vs. regional areas (sq. m)



Source: DTZ Research

2015 Net take-up by business sector (sq. m)



Source: DTZ Research

Bucharest is also home for the largest logistics park in the country (P3 Bucharest – 215,000 sqm), being followed by Ploiesti (Ploiesti West Park, 150,000 sqm), Timisoara (Timisoara Airport Park – 124,000 sqm) and Brasov (Industrial Park Brasov – 72,000 sqm).

The largest logistic parks in Romania (project/location – surface sqm)

Topul celor mai mari spații logistice ca suprafață în prezent			
	Proiect /localitate	Suprafață (mp)	
BE	P3 Bucharest	215.000	Timișoara Airport Park
	Ploiesti West Park	150.000	AI Business Park-București
	CTP Bucharest West*	142.000	Incontro Park Timișoara
	CTP Bucharest**	130.000	Industrial Park Brașov

*Fostele Prologis Park și Mercury Logistics Park, **fostul Bucharest West.

Sursă: JLL

Source: Financial Newspaper (Transport and Logistics 2016)

The logistics market in Romania is divided between logistics and transport companies which build/rent warehouses to provide producers and importers with logistics solution (third-party logistics providers), logistics and industrial developers which build on demand/buys and afterwards rent logistics space, retailers which have their own warehouses, and also many producers which have not externalized their logistics activities.

Logistics services are becoming more and more complex as they have to adapt to technological and economic changes. Logistics is not only about transport and storage, but also about optimizing the whole supply chain: warehousing, loading, handling and transport. Moreover intermodal/multimodal starts playing a significant role. Logistics players on the Romanian market already take into consideration the newest market trends (e.g. dynamic evolution of e-commerce, preference for new concepts like 'green logistics' or 'sustainability') and provide with the best solutions and IT integration, making investments in mechanical handling equipment, fleet modernization, use of alternative fuel, new technology into warehousing operations (e.g. voice-picking), continuous training of personnel, putting in place programs aimed at growing their own pool of specialists, etc.

According to the Logistics Performance Index (LPI), a benchmarking tool published by the World Bank every two years that ranks countries on a scale of 1 to 5 according to their logistics 'friendliness', Romania went down from 3.26 in 2014 to 2.99 in 2016. In a ranking topped by Germany (4.23), Romania trailed most of its EU neighbors, such as the Czech Republic (3.67), Poland (3.43) and Hungary (3.43). Although Romania has witnessed some progress in infrastructure and customs department, its drop in the ranking is due to some regress in international shipments, logistics competence, tracking&tracing, and most of all in timeliness, as fewer shipments reached their destination within the scheduled or expected delivery time.

Thus, logistics remains a key challenge of the trade competitiveness agenda for Romania. Effective logistics and trade facilitation are of paramount importance in order to respond to deadlines and control costs with regard to both exports and imports to and from the EU. The government recognizes the need for efficient transport and trade facilitation logistics for realizing Romania's potential as a regional logistics hub, which will also enhance intraregional exports, and focusses on addressing the weaknesses in the sector.

Despite these deficiencies, transport and logistics players on the Romanian market are quite positive and confess that the sector is becoming more and more attractive as Romania offers opportunities that other, more established markets, do not.

Romania's transport and logistics industry is currently enjoying a smooth ride, as it is estimated to have been increasing by at least 10% in the last three years, mainly due to a more stable economic environment, a skilled labour force and a great positioning within Eastern Europe, having Constanta harbour as an asset. Moreover Romania has the potential to grow ten times in the following years and become an international hub.

Top logistic companies

(storage surface 2014 sqm – turnover 2013 mil. EUR – turnover 2012 mil. EUR)

Loc	Companie	Suprafață totală pentru depozitare 2014 (mp)	Cifră de afaceri 2013 (mil. euro)	Cifră de afaceri 2012 (mil. euro)
BE	1. H.Essers Logistics	83.000	6,1	10,9
	2. DB Schenker	78.500	94,2	81,8
	3. Tibbett Logistics	78.000	16,3	15,1
	4. Norbert Dentressangle Logistics	73.000	5,8	6
	5. Omsan Logistică	65.000	6,7	8,6
	6. DSV Solutions	57.000	32,2	30,3
	7. Ceva Logistics	50.010	N/A	4,6
	8. Geodis Calberson	45.000	25,7	23,1
	9. FM Logistic	42.000	23,8	22,9
	10. Aquila Part Prod Com	40.714	128,1	118,4
	11. KLG Europe Logistics România	40.000	21,1	21
	12. Lazăr Logistics	34.000	1,6	N/A
	13. Kuehne + Nagel	30.479	34,5	37
	14. OTZ Logistics	30.000	2,2	N/A
	15. Gebruder Weiss	27.800	40,9	34,8
	16. Cargo Partner Expeditii	20.000	20,4	18,6
	17. Delamode	17.000	18,2	N/A
	18. Wim Bosman	16.450	11,1	9,2
	19. Quehenberger Logistics ROU	15.750	13	10,9
	20. Eurocooper	14.000	4,4	3

SURSA: ARILOG, CBRE, MINISTERUL FINANTELOR

Source: Financial Newspaper (Transport and Logistics 2016)

Top largest logistic developers in Romania (company – surface sqm – country of origin)

Compania	Suprafața deținută (mp)	Țara de proveniență a acționarului	Compania	Suprafața deținută (mp)	Țara de proveniență a acționarului
CTP	350.000	Olanda	INCONTRO	100.000	Italia
P3 LOGISTIC PARKS	215.000	SUA	PREFABBRICATI		
ALINSO	150.000	Belgium	KCCD	72.000	România
VALAD	130.000	Australia	HELIOS	60.000	Cipru
GLOBALWORTH	124.000	Insula Guernsey*	PHOENIX	58.000	Belgium
LOGICOR**	100.000	SUA	WDP	58.000	Belgium
			EQUEST	55.000	Marea Britanie

Source: Financial Newspaper (Transport and Logistics 2016)

4. Funding, opportunities and projects

According to the officials at the Ministry of Transport in Romania, the Master Plan assures practically the construction of over 6,800 km of road, out of which over 1,500 km of highway and over 1,300 km of express road. At the same time, it assures the modernization of over 5,000 km of railway, 15 airports and 32 harbours. The total value of projects identified in the General Transport Master Plan amounts to EUR 45.451 billion. Various funding is available to launch, develop and complete projects in infrastructure: European funds (Cohesion Fund, European Regional Development Fund, Connecting Europe Facility), State budget funds and funds from other financial institutions.

The total amount of funding for road infrastructure sector in the 2014-2020 programming period, is 13.8 billion euros.

The Master Plan allocates up to EUR 14 billion for rail infrastructure investment.

For the naval sector, the Master Plan allocates EUR 3.395 billion, while for the aviation sector the total investment amounts EUR 1.327 billion.

For multimodal centres, the Master Plan allocates EUR 281.45 million.

Besides these projects of construction and modernization of the infrastructure in the general masterplan for transport, there are also projects of improvement of the services for the means of transport, which refers to the acquisition of new rolling stock for the railway, equipment and dredging vessels in the naval sector, and safety and security equipment in the air domain.

Transportation and logistics – need for technology and know-how covering the whole supply chain: warehousing, loading, handling and transport

Projects - Ministry of Transport, Master Plan General Transport (MPGT)

- Road infrastructure

Highway projects list				
No. Crt.	Project name	Estimated value (mil.Euro)	Length (km)	Implementation period
1	Sibiu - Pitești	1673.57	116.60	2016-2022
2	Comarnic - Brașov	997.75	58.00	2016-2022
3	Tg. Neamț - Iași - Ungheni	1129.70	135.00	2016-2020
4	Nădășelu - Suplacu de Barcău	1002.55	93.30	2016-2018
5	Sibiu - Brașov	816.44	120.00	2016-2020
6	Suplacu de Barcău - Borș (+ Oradea)*	304.43	74.50	2016-2017
7	Craiova - Pitești	899.41	124.30	2017-2020
8	Inel București (A0)	1335.00	102.00	2018-2022
9	Tg. Mureș - Tg. Neamț	2942.57	183.80	2016-2026
10	Ploiești - Comarnic	306.77	51.30	2021-2024
11	Brașov - Bacău	1845.46	160.00	2021-2026

Road Sector (4/4)**Expressway projects list**

No. Crt.	Project name	Estimated value (mil.Euro)	Length (km)	Implementation period
1	Modernizare Centura Sud București - 4 lanes	176,00	35,0	2016-2018
2	Ploiești - Buzău	254,80	65,0	2016-2020
3	Bacău - Pașcani	388,95	81,2	2016-2020
4	Focșani - Bacău	428,30	109,3	2016-2020
5	Buzău - Focșani	282,36	72,0	2016-2020
6	Pașcani - Suceava	289,99	60,5	2016-2020
7	București - Craiova	764,40	195,0	2026-2031
8	Suceava - Siret	196,20	41,0	2021-2024
9	Buzău - Brăila	384,16	98,0	2021-2023
10	Legătura A3 - Aeroport Henri Coandă	43,11	9,0	2017-2019
11	Drobeta Tr.Severin - Lugoj	1345,61	142,0	2025-2032
12	Găești - Ploiești	355,61	74,2	2021-2023
13	Craiova - Drobeta Tr.Severin	615,16	104,0	2026-2032
14	Focșani - Galați - Giurgiuiești	399,84	102,0	2021-2023
15	Suceava - Botoșani	124,54	26,0	2028-2031
16	Bacău - Piatra Neamț	239,12	61,0	2028-2031
17	Constanța - Tulcea - Brăila (+ Dunăre bridge)	1141,88	187,7	2016-2018 / 2028-2032
18	Turda - Halmeu (+Bistrița, Baia Mare și Petea)	1713,21	320,2	2028-2032
19	Pitești - Brașov	1224,10	124,0	2031-2036

- Railway infrastructure

Rail Sector (5/7)		Railway projects list		
No. Crt.	Project name	Estimated value (mil.Euro)	Length (km)	Implementation period
1	Predeal - Braşov	418.00	33.00	2017-2022
2	Braşov - Sighişoara	716.00	128.00	2016-2020
3	Simeria - km.614	724.00	142.00	2016-2019
4	Focşani - Roman	588.00	147.00	2016-2019
5	Paşcani - Dărmăneşti	284.00	71.00	2021-2025
6	Ploieşti Triaj - Focsani	572.00	143.00	2021-2025
7	Roman - Iaşi	527.00	116.00	2021-2025
8	Buzău - Galaţi	524.00	131.00	2021-2025
9	Bucureşti (Chitila) - Piteşti	249.40	99.00	2021-2025
10	Coşlariu - Cp. Turzii	241.00	55.00	2025-2029
11	Sibiu - Vinţu de Jos	189.00	83.00	2021-2025
12	Bucureşti - Craiova	836.00	209.00	2021-2025
13	Caransebeş - Timişoara	267.50	98.00	2025-2029
14	Timişoara - Arad	162.00	57.00	2025-2029
15	Cp.Turzii - Cluj-Napoca	321.00	51.00	2025-2029
16	Piteşti - Rm. Vâlcea Nord	365.80	60.00	2021-2026
17	Rm. Vâlcea Nord - Sibiu	243.80	98.00	2021-2026
18	Craiova - Caransebeş	919.70	226.00	2026-2030
19	Cluj-Napoca - Ilva Mică	452.00	131.00	2025-2029
20	Ilva Mică - Suceava	687.20	191.00	2025-2030
21	Oradea - Arad	217.60	121.00	2025-2029
22	Satu Mare - Baia Mare	94.40	59.00	2031-2035
23	Oradea - Satu Mare	212.80	133.00	2031-2035
24	Baia Mare - Dej	260.60	134.00	2031-2035
25	Bucureşti - Aeroport Henri Coandă	97.15	19.60	2016-2018

Railway Sector (6/7)**Railway projects list**

No. Crt.	Project name	Estimated value (mil.Euro)	Length (km)	Implementation period
Electrification and modernization of the railway projects				
1	București - Giurgiu Fr.	198.24	96.00	2016-2018 / 2021-2025
2	Cluj-Napoca - Ep. Bihor	477.40	158.00	2016-2020
3	Dărmănești - Vicșani	57.00	30.00	2021-2025
4	Timișoara - Stamora Moravița	106.40	56.00	2021-2025
5	Craiova - Calafat	182.40	106.00	2016-2019
6	Constanța - Mangalia	100.60	43.00	2021-2025
Electrification and modernization of the economic railway projects				
1	Filiași - Tg.Jiu	275.50	76	2023-2025
2	Tg.Jiu -Petroșani	192.80	52	2021-2026
3	Petroșani - Simeria	385.00	80	2021-2025
4	Pitești - Craiova	227.20	142	2025-2029
5	Făurei - Fetești	356.00	89	2025-2029

Railway Sector (7/7)**Railway projects list**

No. Cr.	Project name	Estimated value (mil.Euro)	Length (km)	Implementation period
Electrification and modernization of the touristic railway projects				
1	Sibiu - Agnita	92.80	58.00	2017-2018
2	Tg. Mureş - Băile Sovata	118.40	74.00	2017-2018
3	Luduş - Măgheruş Şieu	150.40	94.00	2017-2018
4	Caransebeş - Subcetate	151.20	77.00	2017-2018
5	Turda - Abrud	217.80	93.00	2017-2018
6	Oraviţa - Anina	79.80	33.00	2017-2018
Increased speed railway projects, hourly cadenced and rail services				
1	Bucureşti - Giurgiu	25.50	88.00	2016-2017
2	Timișoara - Arad	22.80	57.00	2016-2017
3	Bucureşti - Buzău	32.30	72.00	2016-2017
4	Bucureşti - Braşov	29.85	166.00	2016-2017
5	Bucureşti - Craiova	67.98	209.00	2016-2017
6	Paşcani - Iaşi	25.70	76.00	2016-2017
7	Bucureşti - Constanţa	32.13	225.00	2016-2017
8	Bucureşti - Piteşti	37.90	108.00	2016-2017

- Maritime and inland waterway infrastructure

Port projects list			
No. Crt.	Project name	Estimated value (mil.Euro)	Implementation period
1	Constanța* Port	865,363,866	2016-2030
2	Galați Port	110,758,949	2016-2018
3	Brăila Port	6,000,000	2016-2018
4	Drobeta Tr. Severin Port	20,201,600	2016-2018
5	Oltenița Port	6,212,329	2016-2018
6	Upgrading flood gate: Agigea, Cernavodă, Ovidiu, Galerii ape mari Ovidiu and Năvodari and pumping stations	96,791,772	2016-2018
7	Orșova Port	8,716,169	2016-2018
8	Cernavodă Port	7,750,020	2016-2018
9	Giurgiu Port	111,447,178	2016-2018
10	Corabia Port	5,443,130	2016-2018
11	Improve traffic safety by purchasing multifunctional and technical ships and specific equipment	54,700,000	2016-2018
12	Isaccea Port	3,440,000	2016-2018
13	Ovidiu Port	16,200,000	2016-2018
14	Calafat Port	14,869,359	2016-2018
15	Medgidia Port	14,400,000	2016-2018
16	Luminita Port	21.600.000	2016-2018
17	Basarabi Port	4,000,000	2021-2024
18	Tulcea Port	30,000,000	2016-2018
19	Hârșova Port	2,600,000	2021-2024
20	Bechet Port	10,680,414	2021-2024
21	Chilia Veche Port	4,000,000	2021-2024
22	Moldova Veche	4,093,711	2021-2024
23	Cetate Port	7,163,563	2021-2024
24	Măcin Port	8,910,000	2021-2024
25	Mahmudia Port	6,000,000	2021-2024
26	Tr. Magurele Port	6,750,000	2021-2024
27	Călărași Port	8,257,496	2021-2024
28	Șvinița Port	2,942,467	2021-2024
29	Baziaș Port	7,148,770	2021-2024
30	Zimnicea Port	6,750,000	2021-2024
31	Tișovița Port	4,413,700	2021-2024
32	Sulina Port	11,250,000	2021-2024

Port projects list

No. Crt.	Project name	Estimated value (mil.Euro)	Implementation period
1	Improving navigation conditions on the Danube between Calarasi and Braila (km. 375 - km. 175)	100,000,000	2016-2018
2	Improving navigation conditions on the common sector of Romanian - Bulgarian Danube River (km. 845.5 - km. 375)	205,000,000	2016-2018
3	Making specific bank protection works on Sulina Channel	45,000,000	2016-2018
4	Water collection system rehabilitation, protection and consolidation on the high banks Danube-Black Sea Canal	140,000,000	2016-2018
5	Water collection system rehabilitation, protection and consolidation sides high on the Danube Gate Alba - Midia Năvodari	49,000,000	2016-2018

- Air infrastructure

Airport projects list

No. Crt.	Project name	Estimated value (mil.Euro)	Implementation period
1	București airports	1,093,866,270	2016-2018
2	Cluj-Napoca airport	125,302,039	2016-2018
3	Timișoara airport	136,056,891	2016-2018
4	Sibiu airport	54,741,374	2016-2018
5	Bacău airport	66,877,890	2016-2018
6	Tg. Mureș airport	50,089,442	2022-2024
7	Iași airport	102,639,202	2022-2024
8	Craiova airport	71,074,827	2022-2024
9	Baia Mare airport	20,872,500	2022-2024
10	Tulcea airport	20,421,500	2022-2024
11	Suceava airport	37,188,450	2024-2027
12	Oradea airport	33,069,000	2024-2027
13	Constanța airport	49,625,000	2024-2027
14	Arad airport	26,921,500	2024-2027
15	Satu Mare airport	19,121,500	2024-2027
16	Aerodromes	15,000,000	2016-2018

- Multimodal

Multimodal platforms modernization list			
No. Crt.	Project name	Estimated value (mil.Euro)	Implementation period
1	București Multimodal	47,945,000,0	2016-2017
2	Timișoara Multimodal	34,250,000,0	2016-2017
3	Cluj-Napoca Multimodal	34,250,000,0	2016-2017
4	Bacău Multimodal	21,440,000,0	2016-2017
5	Oradea Multimodal	21,440,000,0	2016-2018
6	Suceava Multimodal	21,440,000,0	2022-2023
7	Iași Multimodal	34,250,000,0	2022-2025
8	Craiova Multimodal	34,250,000,0	2022-2023
9	Turda Multimodal	10,720,000,0	2022-2023
10	Giurgiu Multimodal	0,0	2022-2023
11	Brașov Multimodal	34,250,000	2022-2023

5. Organizations, trade fairs and key-publications

Organizations

Federation of Romanian Transport Operators (FORT)

20 Traian street, Otopeni

+40 726 741 053

office@fort-romania.ro

www.fort-romania.ro

National Union of Road Hauliers from Romania (UNTRR)

60 Ienachita Vacarescu, sector 4, Bucharest

+40 21 336 77 88

office@untrr.ro

www.untrr.ro

Romanian Association for International Road Transport (ARTRI)

25 Marasti boulevard, sector 1, Bucharest

+40 21 319 45 25

office@artri.ro

www.artri.net

Professional Association of Roads and Bridges from Romania (APDP)

41 Dinicu Golescu, sector 1, Bucharest

+40 21 316 13 24

office@apdp.ro
www.apdp.ro/en/

Union of Romanian Inland Ports (UPIR)

34 Portului street, Galati
+40 236 460 660

office@danube-ports.ro
<http://www.danube-ports.ro/>

Romanian Logistics Association (ARILOG)

Alexandru Radovici street, sector 2, Bucharest
+40 740 199 919

office@arilog.ro
www.arilog.ro/en

Trade fairs

Translogistica (International Transport and Logistics Expo)
www.translogistica.ro

Expo Traffic Romania
www.expotrafic.ro

Key-publications

Intermodal and Logistics magazine (I&L)
www.intermodal-logistics.eu

Romanian Journal of Transport Infrastructure
<http://rjti.rs.utcb.ro/>

Tranzit magazine
www.traficmedia.ro

Warehouse info
www.warehouseinfo.ro

Transport and Logistics magazine
www.transport-business.ro

Ziua Cargo
<http://www.ziuacargo.ro/revista>

6. References

Publications / press releases / market reports:

National Institute of Statistics
Erste Group Research
Ministry of Transport – master plan general transport
ARILOG
Port of Constanta
CFR – National Railway company
Cosmos Roundtable/KombieConsult – roadmap on intermodal transport in Romania (2013)
Financial Newspaper – transport & logistics market survey 2016
ADR West – trade and transport facilitation and logistics infrastructure (2013)
InvestinRomania
Intermodal & Logistics magazine
Business Review
The Diplomat
Nine O’Clock
Romania-insider.com
RomaniaJournal.ro
Railwaypro.com
CBRE
DTZ Echinox

7. Executive summary

1. General economic overview - Romania’s accession to the EU in 2007 came after a laborious process that marked positive deep-going transformations in many of the country’s economic and social areas. Romania has continued its progress and now has a stable macro-economic structure, being one of the fastest growing economy in Europe with an annual GDP growth of 3.5% - 4.5%. However Romania’s economic growth needs to be channeled towards real development and the Romanian Government is doing considerable efforts to assure a durable economic growth through applying measures to bridge regional gaps among regions in Romania, gaps among various categories of population, and at the same time to maintain and encourage a stable, attractive and predictable business environment, making Romania one of the top destination in Europe for doing business.
2. Transport infrastructure and transportation - Romania, the 7th largest country in EU by population with about 20 million inhabitants, and the 9th largest country in EU by size with a surface of 238 391 sq km, benefits from a wide range of transportation means: road, rail, naval (maritime -Black Sea & inland waterway -Danube river), air, and also from an attractive geo-strategical location at the crossroads of three Pan-European corridors (IV-VII-IX), being a gateway to three major markets: the EU, CIS and the Middle East. In general, Romania’s infrastructure is underdeveloped and outdated and suffers from connectivity and accessibility

constraints, although some transports investments have been made. Despite the poor infrastructure, the transportation market has witnessed growth in the past seven years due to an increase of international and domestic trade as a result of production/exports growth and consumption's rise. The transportation market has the potential to grow much more in the years to come and needs to be supported by an efficient transport and a modern infrastructure. Through European Infrastructure Programs, Romania will benefit from a modernization and extension of its infrastructure.

3. Logistics and industrial market - Romania has the potential to position itself as a strategic regional trade and logistics hub for Central and Eastern Europe due to its geo-strategical location at the crossroads of the main trade routes between Western Europe and Asia, between South Europe (the Mediterranean) and Northern Europe. The logistics market in Romania is not that much developed comparing to other countries in Europe. Bucharest is the main logistics hub in Romania and concentrates most of the logistics spaces as it enjoys a strategic location– 225 km from the Port of Constanta, 850 km from Budapest, and at the junction of two Pan-European Corridors. The largest regional markets outside Bucharest are Timisoara/West Romania due to its proximity to the Western border, followed by South Romania and then Center Romania. The logistics market is expected to grow fast going forward 2016 due to the constant GDP growth, production/exports rise and retail expansion, which will result in an increased demand for logistics facilities.
4. Funding, opportunities and projects - Through the recently adopted Master Plan General Transport (MPGT), the Romanian Government proposes projects, which benefits from both European funds and State budget funds, and assures practically the construction of roads, modernization of rail, ports, airports and multimodal centres. The total value of projects identified in the MPGT amounts to EUR 45.451 billion. The master plan also mentions about the need of acquisition of new rolling stock for the railway, equipment and dredging vessels in the naval sector, safety and security equipment in the air domain. For transportation and logistics there is need of technology and know-how covering the whole supply chain: warehousing, loading, handling and transport.