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## Transportation management in Kosovo

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## Transportation management in Kosovo

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**Abstract.** In this paper we are dealing with scientific management of transport in Kosovo. The main aim of this research paper is how management made transport in Kosovo, management of roads, railway management, management of air transport.

Kosovo roads categorization: international, regional, as roads are paved and asphalted for the year 2012 - 2013, international road is a public road that, with international act is classified road network of international, highways public road officially categorized as a Main Road, connecting two or more cities and which can serve as links with the neighboring countries, regional Roads public road officially categorized as a regional road, which connects two or more major cities

local roads public road officially categorized as a local road connecting settlements inhabited areas within a municipality, unclassified road means any road that is not a public road, the owner of which is a citizen or group of citizens, and not the Ministry's responsibility, but which is not officially used by pedestrians, vehicles and other moving sideways move in space unmarked, no paved road mean free path and road surfaces built without road coating even to the point of connection with the public road surface build road, rail capacity in Kosovo for the year 2012 - 2013, the number of flights to Kosovo for the year 2012 - 2013

**Keywords:** management, transport, road, railway, air.

### 1 Introduction

In this work we have to do with transportation management in Kosovo, Categorization of roads in Kosovo as in those international, regional, and streets of Kosovo by category as we kilometer roads are paved and unpaved for the year 2012 - 2013 International road is a public road that, with international act is classified road network of international, highways public road officially categorized as a Main Road, connecting two or more cities and which can serve as links with the neighboring countries, regional Roads public road officially categorized as a regional road, which connects two or more major cities, local roads public road officially categorized as a local road connecting settlements inhabited areas within a municipality, unclassified road means any road that is not a public road, the owner of which is a citizen or group of citizens, and not the Ministry's responsibility, but which is not officially used by pedestrians, vehicles and other moving sideways move in space unmarked, no paved road mean free path and road surfaces built without road coating even to the point of connection with the public road surface build road

Kosovo railway capacity, the number of passengers in thousands, the amount of goods Transported in thousands of tons, the amount of freight transported in million tons - km per year from 2012 to 2013.

Number of flights for the year 2012 - 2013 The number of passengers for the year 2012 - 2013, the average number of passengers per flight

### 2 Transportation Management in Kosovo

**International road** is a public road that, with international act is classified road network of international **Highways** public road officially categorized as a Main Road, connecting two or more cities and which can serve as links with the neighboring countries.

**Regional Roads** public road officially categorized as a regional road , which connects two or more major cities

**Local roads** public road officially categorized as a local road connecting settlements inhabited areas within a municipality ;

**Unclassified road** means any road that is not a public road , the owner of which is a citizen or group of citizens , and not the Ministry's responsibility , but which is not officially used by pedestrians , vehicles and other moving sideways move in space unmarked .

**No paved road** mean free path and road surfaces built without road coating even to the point of connection with the public road surface build road.

## 2.1 The roads of Kosovo

The roads of Kosovo by category, international, regional location of signs for the years 2012 - 2013

In 2012 international road were added to 22.4 km, and 2013 km of roads were added 20 international and now international road length is 80.4 km.

Highways are paved in for 630.4 km, and 2013 are the same as we raised the previous year 630.4.

Regional roads are paved in for 1294.7 km, and 2013 are hospitalized same as in the previous year 1294.7.

Table.1. The roads of Kosovo by categories.

The roads of Kosovo by category		
	2012	2013
International	60.4	80.4
Highways	630.4	630.4
Regional	1294.7	1294.7
Total	1985.5	2005.5

Sources: Department of Kosovo roads

According to data presented by the year 2012 in the territory where we 1985.5 km international road highways are 3% 32% while 65% are regional roads

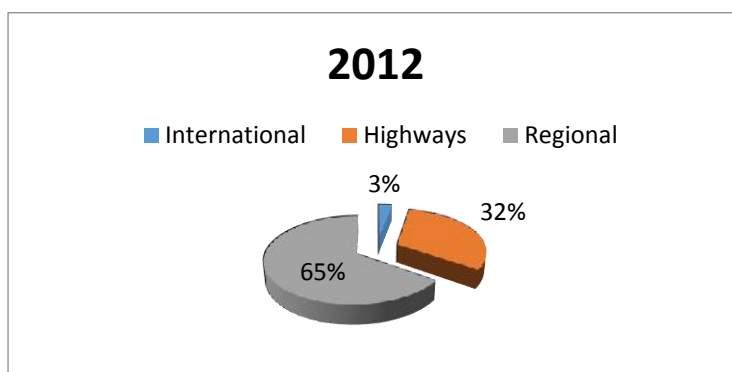


Fig.1. Kosovo roads by category

Sources: Department of Kosovo roads

According to data presented by 2013 in the territory where we 2,005.5 km international road highways are 4% 31% while 65% are regional roads.

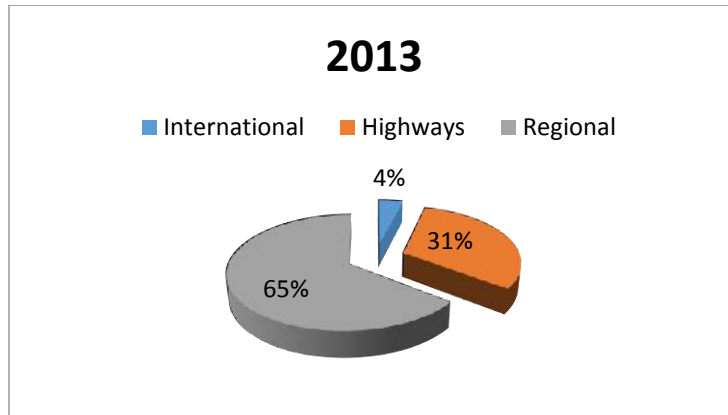


Fig .2. Kosovo roads by category

Sources: Department of Kosovo roads

The roads of Kosovo by categories in kilometers (km) of paved roads for 2012 are 1865.4 km of asphalted we saw for 2012 were 120.1 km of paved roads while for 2013 are 120.1 km of roads without asphalt for 2013 are 120.1 km.

Table. 2. Kosovo roads by categories-in kilometers (km)

The roads of Kosovo by category		
- In kilometers (km)		
	2012	2013
Paved	1865.4	1885.4
Unpaved	120.1	120.1
Total	1985.5	2005.5

Sources: Department of Kosovo roads

The table above shows that in 2013 a total of 2,005.5 km or 1,885.5 km in percentage 94% are paved roads and 120.1 km or 6% of the roads are not paved.

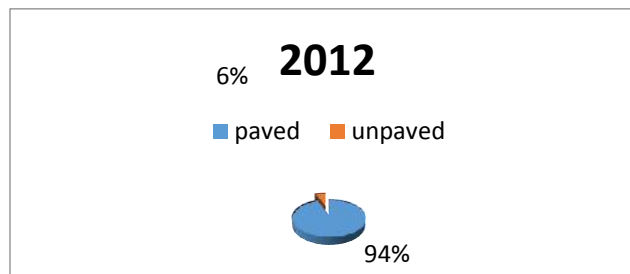


Fig. 3. Structure Kosovo roads by category

Sources: Department of Kosovo roads

The table above shows that in 2013 a total of 2,005.5 km or 94% are paved roads and 120.1 km or 6% of the roads are not paved.

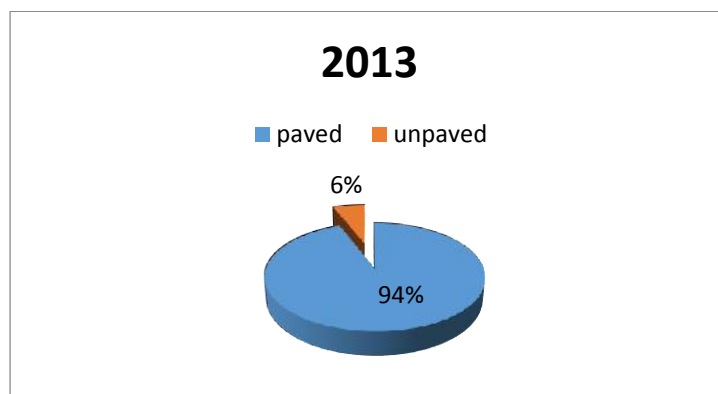


Fig. 3. Structure Kosovo roads by category

Sources: Department of Kosovo roads

## 2.2 Railway Transportation

In the territory of Kosovo have total 333 km rail track and 110 private transport. Circulating in Kosovo Railways diesel locomotive 8, which carry 27 wagons, 9 and 18 for passenger luggage.

Table .3. railway capacity, from Q1 2012-Q4 2013

Railway capacity, from Q1 2012 to Q2 2013			
Period	Number of passengers in thousands	Quantity of goods carrying a thousand tons	The amount of goods transported in millions of tons - km
Q1-2012	88	173	13
Q2-2012	96	152	7
Q3-2012	95	231	13
Q4-2012	88	269	16
Total 2012	367	825	49
Q1-2013	82	221	8
Q2-2013	96	282	11
Q3-2013	99	171	12
Q4-2013	92	231	12
Total 2013	369	905	43

Sources: Kosovo Railways.

In the fourth quarter of 2013 the number of passengers that the train as a means of travel, is about 92 thousand. In reports fourth quarter of 2012 the number of passengers has increased 29.5%.

Transport of goods by rail in the fourth quarter of 2013 was 231 thousand tons, compared to the same quarter last year there was 14:36% discount.

Number of passengers in thousands for 2012 is 50% also for 2013 is 50%

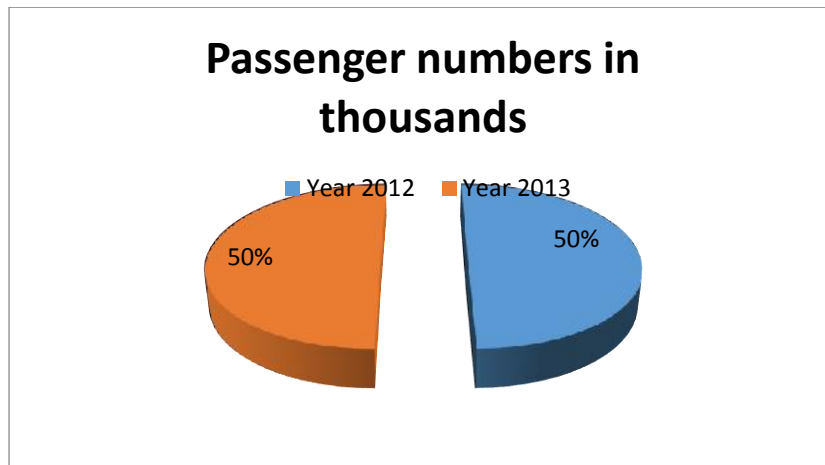


Fig .4. Number of passengers according year

*Sources: Kosovo Railways.*

The quantity of goods carried in thousand tons for 2012 are 49% while the amount of goods in Kosovo Railways for 2013 increased to 52% (80 quantity of goods)

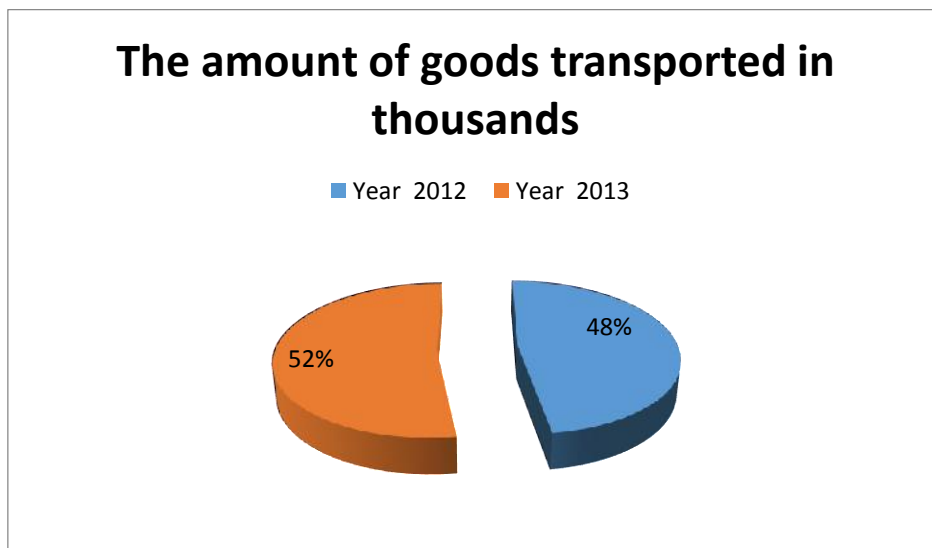


Fig .5. The amount of freight carried in tons

*Sources: Kosovo Railways.*

The amount of goods transported in millions of tons - km for 2012 is 53% while for 2013 showed a deduction for (6 quantities of goods transported in million tone - km) 47%

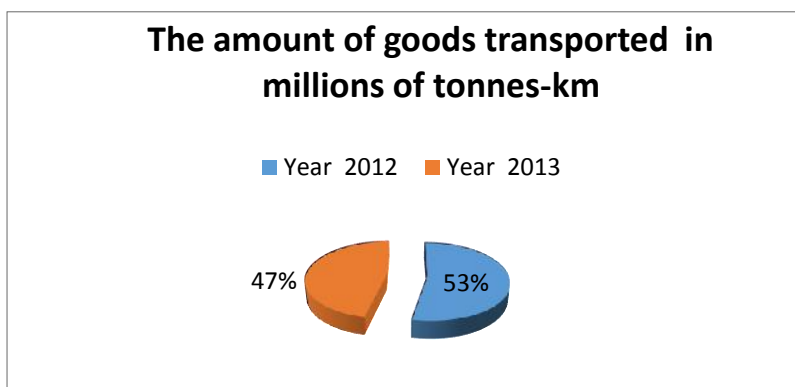


Fig. 6. Amount of freight tone-kilometers carried

Sources: Kosovo Railways.

### 2.3 Air Transport

The number of flights in the fourth quarter of 2013 was 1,452 or 13:47% less than in the same quarter last year (Q4, 2012).

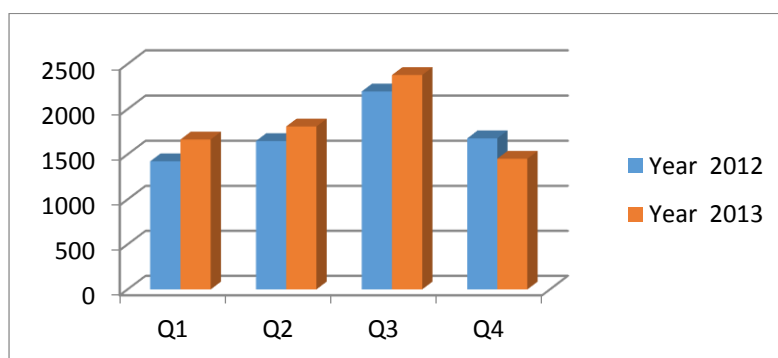
Table.4. the number of flights by quarter for the period Q1 2012 - Q4 2013

Number of flights according three-month period					
	Q1	Q2	Q3	Q4	Total
Year 2012	1424	1648	2197	1678	6947
Year 2013	1665	1809	2379	1452	7305

Sources: Airport Kosovo.

Number of flights for Q1 2012 to Q4 2013, Q1 quarterly seen, Q2, Q3 has been an increase in the number of flights from 2012 to 2013 are in the last months of Q4 has a discount from 2012 to 2013. Number of flights for 2012 is 6947 and for 2013 is 7305

Fig.7. The number of flights by quarter for the period Q1-2012 Q4-2013



Sources: Airport Kosovo.

Number of passengers by quarter for the period Q1 2012 - Q4 2013

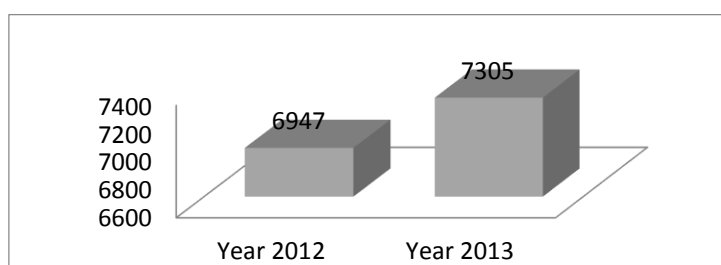
Table.5. number of passengers according quarter for the period Q1 2012- Q 4 2013 in thousands

Number of flights according three months for the period					
Period	Q1	Q2	Q3	Q4	Total
Year 2012	1424	1648	2197	1678	6947
Year 2013	1665	1809	2379	1452	7305

Sources: Airport Kosovo.

Number of flights for 2012 is 6947 and for 2013 is 7305

Fig.8. The number of flights for the year 2012 - 2013



Sources: Airport Kosovo.

Number of passengers for by quarter for the period Q1 2012 to Q4 2013

Table.6. Number of passengers according four months for the year 2012 - 2013

Number of passengers according four months for the year 2012 - 2013					
Period	Q1	Q2	Q3	Q4	Total
Year 2012	293	366	530	339	1528
Year 2013	348	408	560	313	1629

Sources: Airport Kosovo

Number of passengers for 2012 is 1528 and for 2013 is 1629

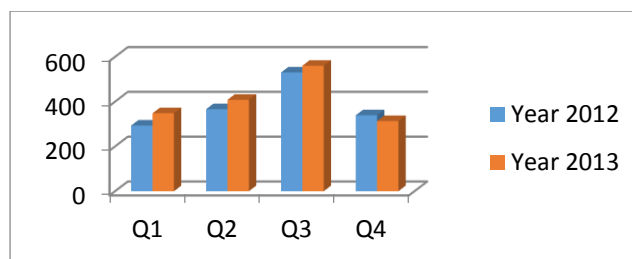


Fig.9. The number of passengers for period Q1 2012 Q4 2013

Sources: Airport Kosovo



Table. 8. number of passengers as after months for 2012 and 2013

The average number of passengers per flight													
Years / Months	January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	203	196	217	255	218	223	244	248	228	212	192	201	2637
2013	201	210	217	223	223	230	232	245	225	220	207	219	2652
Total	404	406	434	478	441	453	476	493	453	432	399	420	5289

Sources: Airport Kosovo

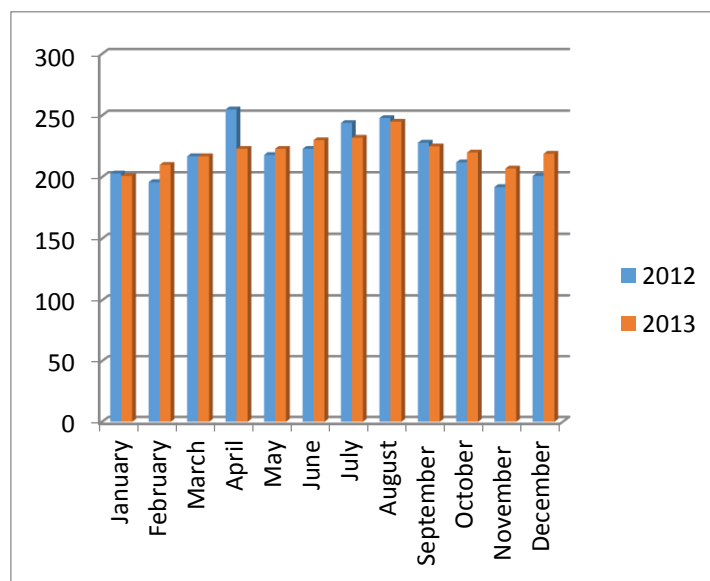


Fig. 10. number of passengers as after months for 2012 and 2013

Sources: Airport Kosovo

### 3 Conclusion

Through this research analyzed the main factors affecting transport in Kosovo and determine profit through increasing the number of passengers.

1. Increase paving roads to villages that have been gathered with easy access to cities

2. Increasing the number of railway tracks
3. Growth of locomotives, wagons, baggage
4. Increase the number of aircraft in other city Kosovo

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