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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.

<table>
<thead>
<tr>
<th>The roads of Kosovo by category</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>60.4</td>
<td>80.4</td>
</tr>
<tr>
<td>Highways</td>
<td>630.4</td>
<td>630.4</td>
</tr>
<tr>
<td>Regional</td>
<td>1294.7</td>
<td>1294.7</td>
</tr>
<tr>
<td>Total</td>
<td>1985.5</td>
<td>2005.5</td>
</tr>
</tbody>
</table>

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% while 65% are regional roads.

![Fig. 2. Kosovo roads by category](image)

*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)

<table>
<thead>
<tr>
<th>The roads of Kosovo by category</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved</td>
<td>1865.4</td>
<td>1885.4</td>
</tr>
<tr>
<td>Unpaved</td>
<td>120.1</td>
<td>120.1</td>
</tr>
<tr>
<td>Total</td>
<td>1985.5</td>
<td>2005.5</td>
</tr>
</tbody>
</table>

*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](image)

*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 1,885.5 km in percentage 94% are paved roads and 120.1 km or 6% of the roads are not paved.

![2013 Road Composition](image)

**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>
<thead>
<tr>
<th>Period</th>
<th>Number of passengers in thousands</th>
<th>Quantity of goods carrying a thousand tons</th>
<th>The amount of goods transported in millions of tons - km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1-2012</td>
<td>88</td>
<td>173</td>
<td>13</td>
</tr>
<tr>
<td>Q2-2012</td>
<td>96</td>
<td>152</td>
<td>7</td>
</tr>
<tr>
<td>Q3-2012</td>
<td>95</td>
<td>231</td>
<td>13</td>
</tr>
<tr>
<td>Q4-2012</td>
<td>88</td>
<td>269</td>
<td>16</td>
</tr>
<tr>
<td>Total 2012</td>
<td>367</td>
<td>825</td>
<td>49</td>
</tr>
<tr>
<td>Q1-2013</td>
<td>82</td>
<td>221</td>
<td>8</td>
</tr>
<tr>
<td>Q2-2013</td>
<td>96</td>
<td>282</td>
<td>11</td>
</tr>
<tr>
<td>Q3-2013</td>
<td>99</td>
<td>171</td>
<td>12</td>
</tr>
<tr>
<td>Q4-2013</td>
<td>92</td>
<td>231</td>
<td>12</td>
</tr>
<tr>
<td>Total 2013</td>
<td>369</td>
<td>905</td>
<td>43</td>
</tr>
</tbody>
</table>

*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%
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

<table>
<thead>
<tr>
<th></th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2012</td>
<td>1424</td>
<td>1648</td>
<td>2197</td>
<td>1678</td>
<td>6947</td>
</tr>
<tr>
<td>Year 2013</td>
<td>1665</td>
<td>1809</td>
<td>2379</td>
<td>1452</td>
<td>7305</td>
</tr>
</tbody>
</table>

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.
Management, Business and Economics

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

Table 5. Number of passengers according quarter for the period Q1 2012 - Q4 2013 in thousands

<table>
<thead>
<tr>
<th>Period</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2012</td>
<td>1424</td>
<td>1648</td>
<td>2197</td>
<td>1678</td>
<td>6947</td>
</tr>
<tr>
<td>Year 2013</td>
<td>1665</td>
<td>1809</td>
<td>2379</td>
<td>1452</td>
<td>7305</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Period</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2012</td>
<td>293</td>
<td>366</td>
<td>530</td>
<td>339</td>
<td>1528</td>
</tr>
<tr>
<td>Year 2013</td>
<td>348</td>
<td>408</td>
<td>560</td>
<td>313</td>
<td>1629</td>
</tr>
</tbody>
</table>

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
3rd International Conference on Business, Technology and Innovation

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

<table>
<thead>
<tr>
<th>Years / Months</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>203</td>
<td>196</td>
<td>217</td>
<td>255</td>
<td>218</td>
<td>223</td>
<td>244</td>
<td>248</td>
<td>228</td>
<td>212</td>
<td>192</td>
<td>201</td>
<td>2637</td>
</tr>
<tr>
<td>2013</td>
<td>201</td>
<td>210</td>
<td>217</td>
<td>223</td>
<td>223</td>
<td>230</td>
<td>232</td>
<td>245</td>
<td>225</td>
<td>220</td>
<td>207</td>
<td>219</td>
<td>2652</td>
</tr>
<tr>
<td>Total</td>
<td>404</td>
<td>406</td>
<td>434</td>
<td>478</td>
<td>441</td>
<td>476</td>
<td>493</td>
<td>453</td>
<td>432</td>
<td>399</td>
<td>420</td>
<td>5289</td>
<td></td>
</tr>
</tbody>
</table>

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

References

1. Brink David “Essentials of Statistics”
2. Fernandes Marcelo “Statistics for Business and Economics
3. Anthony Denis “Statistics for Health, Life and Social Sciences
4. Bohm Gerhard, Zech Günter “Introduction to Statistics and Data Analysis for Physicists”
5. Statistical Office of Kosovo