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Enterprise Document Assessment Methodology

Global Rail Transportation Office Documents Costs

The data represented in this report is summarized for simplicity. It is based on our independent assessments, research and computational analysis encompassing more than 250 published government, academic, and industry research data sources.

We studied the impact of 20 global rail (passenger and freight) transportation companies staffed by 1,588,300 full-time equivalent employees, that during 2018 will produce some 3.44 billion office documents with a predicted fully burden cost just over \$2 billion dollars.

This document is intended for discussion purposes and hopefully you are intrigued to learn more.

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strength in numbers

1997-2018

EDAM® Global 20 Predicted Office Document Volumes & Costs

According to International Railway Union data, global passenger railways (long distance and local light rail) will transport 48.1 billion passenger (rides) during 2018. By geographic region APAC 22.9, EMEA 14.8 and AMER 10.4 respectively. A key factor in ridership is population density. 54% of the world's population live in 35 major urban areas. This figure is projected to grow according to United Nations data to 66% by 2050 which equates to 2.5 billion people. At this rate, global passenger rail will need to support over 60 billion (rides) annually.



Russian Railways



791,539
Employees
FTE



1,316,724,813
Office Documents
Produced



\$ 772,767,422
Office Document
Costs



158,007
Trees Consumed
for Office Paper



LOGISTICS



240,000
Employees
FTE



686,525,490
Office Documents
Produced



\$ 399,686,784
Office Document
Costs



82,383
Trees Consumed
for Office Paper



70,180
Employees
FTE



170,446,952
Office Documents
Produced



\$ 99,320,562
Office Document
Costs



20,454
Trees Consumed
for Office Paper



JR-EAST



58,550
Employees
FTE



155,020,643
Office Documents
Produced



\$ 89,671,014
Office Document
Costs



18,602
Trees Consumed
for Office Paper



JR-WEST



46,006
Employees
FTE



102,193,919
Office Documents
Produced



\$ 59,955,059
Office Document
Costs



12,263
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

A key operating industry metric is the average speed of a train, and the movement of one ton of freight a distance of one mile (ton-miles). The average freight car capacity is just over 90 tons and can travel around 25 miles per hour. Technavio forecasts during 2018, Rail Freight companies will make on average 3 to 4 cents per ton, per mile and they will move nearly 2 trillion ton-miles of (raw material and finished goods) this year.



41,992
Employees
FTE



127,502,345
Office Documents
Produced



\$ 74,786,300
Office Document
Costs



15,300
Trees Consumed
for Office Paper



41,000
Employees
FTE



118,124,759
Office Documents
Produced



\$ 69,350,956
Office Document
Costs



14,175
Trees Consumed
for Office Paper



40,977
Employees
FTE



84,766,771
Office Documents
Produced



\$ 49,017,856
Office Document
Costs



10,172
Trees Consumed
for Office Paper



36,560
Employees
FTE



79,035,423
Office Documents
Produced



\$ 46,221,699
Office Document
Costs



9,484
Trees Consumed
for Office Paper



33,119
Employees
FTE



68,436,846
Office Documents
Produced



\$ 39,475,442
Office Document
Costs



8,212
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

There are currently some 2.1 million registered commercial rail cars (passenger and freight) globally. Like vehicles, ships, and airplanes, railcars and locomotives are highly regulated for service, use, and maintenance. A key cost factor for railways is compliance which is still predominately document-centric. The distributed nature of operations is focusing the Rail industry on technology initiatives to digitize, standardize information sharing, and data security according to consultancy, KEP, LLC.



30,945
Employees
FTE



67,612,145
Office Documents
Produced



\$ 39,565,070
Office Document
Costs



8,113
Trees Consumed
for Office Paper



27,110
Employees
FTE



88,113,807
Office Documents
Produced



\$ 51,443,355
Office Document
Costs



10,574
Trees Consumed
for Office Paper



24,000
Employees
FTE



88,587,050
Office Documents
Produced



\$ 51,754,786
Office Document
Costs



10,630
Trees Consumed
for Office Paper



22,249
Employees
FTE



67,736,942
Office Documents
Produced



\$ 39,625,609
Office Document
Costs



8,128
Trees Consumed
for Office Paper



19,514
Employees
FTE



61,595,965
Office Documents
Produced



\$ 36,116,053
Office Document
Costs



7,392
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

The global “connected rail” market is estimated to be \$80 Billion in 2018 and is projected to grow at a CAGR of 6.42% to reach \$105 Billion by 2020 - forecasted by MarketsandMarkets™. The major factors behind the growth in this marketplace is the continuous need for Rail safety and security, commutator convenience, increasing government regulation, and population growth. These companies are prime targets for a digital technology refresh and IoT services, as well as next generation Blockchain, RPA, BPO, and AI solutions.



18,054
Employees
FTE



42,333,221
Office Documents
Produced



\$ 24,510,283
Office Document
Costs



5,080
Trees Consumed
for Office Paper



13,781
Employees
FTE



27,275,796
Office Documents
Produced



\$ 15,655,809
Office Document
Costs



3,273
Trees Consumed
for Office Paper



13,560
Employees
FTE



39,973,608
Office Documents
Produced



\$ 23,399,809
Office Document
Costs



4,797
Trees Consumed
for Office Paper



12,034
Employees
FTE



35,252,646
Office Documents
Produced



\$ 20,671,475
Office Document
Costs



4,230
Trees Consumed
for Office Paper



7,130
Employees
FTE



16,210,519
Office Documents
Produced



\$ 9,552,119
Office Document
Costs



1,945
Trees Consumed
for Office Paper

EDAM® Cost Modeling

ALL Associates Group uses exhaustive research, mathematical and scientific processes, predictive analytics, and techniques to combine global data on employment and industry statistics. EDAM® databases and algorithms can compute the **fully burdened costs** of any document system, within any organization, anywhere in the world.

This 2018 Global 20 Rail Transportation report was generated using EDAM® Predictive Modeling Tools. To obtain a predictive profile of any one of these 20 Rail companies listed below call **(919) 917-7600** or send a email to: **edam@allassociates.com**

Insights

- **Document Volumes**
 - Office & Production
- **Document Costs**
 - Print / Copy / Digital
- **Impact Analysis**
 - Energy & Resources
 - FTE Workforce Dynamics
 - Machine in Field (MIF)
 - Regulatory Impact Analysis

