Economic Commission for Europe
Inland Transport Committee
Working Party on Transport Trends and Economics
Twenty-eighth session
Item 11 (e) of the provisional agenda
Review of the transport situation, transport trends and economics in ECE region –
Transport Trends and Challenges in the rail sector

2015 Trends in Rail transport

Submitted by the International Union of Railways
2015 Trends in Rail transport

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Economics Adviser
markovic@uic.org

UNECE 5-7 September 2016 Transport and Economics
UIC: the International Union of Railways

- About 240 members and partners on all continents

- Members are:
  - Railways
  - Rail operators
  - Infrastructure managers
  - Railway service providers
  - Public transport companies
  - Research Institutes

- Public or private railway companies
Synergies developed by UIC with leading institutions

- UIC Consultative status to UN, ECOSOC
- UIC DG Member of HL- Adv Group to UN SG on Sustainable Transport
UIC, its missions

Promoting the development of rail transport at world level, in order to meet challenges of mobility and sustainable Development

Key Challenges in terms of

- Innovation
- Standardisation
- Transmission
- Dissemination
- Strategic Advice
UIC’s role

- Know-how
- Technical and operational expertise
- Technical solutions
- Regulations, standards
- Best practices

- Exchange platforms
- Innovation: new ideas, new concepts
- Protecting member railways’ common interests
- Support of development of key infrastructure projects

- Specifications
- Standards
- Interfaces
- Studies
- Interoperability for international rail corridors

- Forums
- Seminars
- Conferences
- Congresses: WCRR, UIC HIGHSPEED
- Global Rail Freight Conference, ERTMS, NextStation
Statistics publications

- Yearbook: final data (restricted to participants*)
- Synopsis: provisional numbers
- Time series indexes and values (to be restarted)

Also on-line data
- Quarterly
- Synopsis

Railisa data base is being redesigned and soon available

UIC Statistics are company based
>>> data given and validated by UIC members

visit our website at http://uic.org

* Since 2012
## Synopsis

Provisional annual data - All continents

<table>
<thead>
<tr>
<th>Country</th>
<th>Railway company</th>
<th>Length of lines &gt; (km)</th>
<th>Rolling Stock</th>
<th>Average staff strength</th>
<th>Train performance</th>
<th>Freight</th>
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<tbody>
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<td>Albania</td>
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<td>20.3</td>
</tr>
<tr>
<td>Austria</td>
<td>ÖBB</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Belgium</td>
<td>SNCB/MIVB</td>
<td>-</td>
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<tr>
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<td>-</td>
<td>-</td>
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<tr>
<td>Croatia</td>
<td>HZ Cargo</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>20.3</td>
</tr>
<tr>
<td>Czech Rep</td>
<td>CD</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Denmark</td>
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<td>-</td>
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<td>France</td>
<td>FRET</td>
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<td>-</td>
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</tr>
<tr>
<td>Germany</td>
<td>DB AG</td>
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<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Greece</td>
<td>GRAE</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>20.3</td>
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<tr>
<td>Hungary</td>
<td>GYSEV CARGO</td>
<td>-</td>
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<td>-</td>
<td>20.3</td>
</tr>
</tbody>
</table>

Available mid year for n-1

Download it at [http://uic.org/statistics](http://uic.org/statistics)
International Railway Statistics

- Yearly published
- Public data?

- Network
- Transport stock
- Staff
- Operation
- Passenger traffic
- Freight traffic
- Financial results
- Energy
- Accidents
- High-speed

+ 5 yearly tables
Cautious reading: we search solutions

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
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<tbody>
<tr>
<td>Europe including Turkey</td>
<td>469.2</td>
<td>483.8</td>
<td>470.5</td>
<td>472.8</td>
<td>485.6</td>
<td>460.0</td>
<td>476.1</td>
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<td>173.4</td>
<td>175.9</td>
<td>153.6</td>
<td>139.0</td>
<td>139.8</td>
<td>144.6</td>
<td>144.6</td>
<td>128.8</td>
<td>120.4</td>
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<td>62.0</td>
<td>62.2</td>
<td>62.3</td>
<td>49.3</td>
<td>49.3</td>
<td>49.3</td>
<td>63.5</td>
<td>62.8</td>
<td>-1%</td>
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<tr>
<td>America</td>
<td>13.3</td>
<td>14.0</td>
<td>13.5</td>
<td>12.0</td>
<td>20.8</td>
<td>20.9</td>
<td>22.3</td>
<td>21.7</td>
<td>27.5</td>
<td>21%</td>
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<tr>
<td>Asia Oceania and Middle East</td>
<td>1,788.6</td>
<td>1,950.9</td>
<td>2,012.0</td>
<td>2,079.3</td>
<td>2,187.8</td>
<td>2,171.7</td>
<td>2,173.0</td>
<td>2,380.9</td>
<td>2,280.2</td>
<td>-4%</td>
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<tr>
<td>WORLD estimates</td>
<td>2,506.1</td>
<td>2,686.6</td>
<td>2,711.9</td>
<td>2,755.4</td>
<td>2,883.4</td>
<td>2,866.6</td>
<td>2,865.3</td>
<td>3,070.2</td>
<td>2,954.3</td>
<td>-4%</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Tonne-kilometres (billions)</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>Δ%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe including Turkey</td>
<td>723.2</td>
<td>986.8</td>
<td>546.0</td>
<td>700.6</td>
<td>648.6</td>
<td>621.4</td>
<td>604.1</td>
<td>569.6</td>
<td>529.1</td>
<td>-8%</td>
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<tr>
<td>Russian Federation</td>
<td>2,990.3</td>
<td>2,116.2</td>
<td>1,865.3</td>
<td>1,903.2</td>
<td>2,127.2</td>
<td>2,222.4</td>
<td>2,222.4</td>
<td>2,280.6</td>
<td>2,304.8</td>
<td>0.3%</td>
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<tr>
<td>Africa</td>
<td>139.2</td>
<td>138.4</td>
<td>137.1</td>
<td>139.2</td>
<td>139.1</td>
<td>139.1</td>
<td>139.4</td>
<td>158.7</td>
<td>136.5</td>
<td>-18%</td>
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<tr>
<td>America</td>
<td>3,540.2</td>
<td>3,513.8</td>
<td>2,973.2</td>
<td>3,076.1</td>
<td>3,132.6</td>
<td>3,231.0</td>
<td>3,231.0</td>
<td>3,252.5</td>
<td>2,524.6</td>
<td>-29%</td>
</tr>
<tr>
<td>Asia Oceania and Middle East</td>
<td>3,095.9</td>
<td>3,452.7</td>
<td>3,466.2</td>
<td>3,462.0</td>
<td>3,621.2</td>
<td>3,593.1</td>
<td>3,592.3</td>
<td>3,410.7</td>
<td>3,072.5</td>
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<tr>
<td>WORLD estimates</td>
<td>9,588.9</td>
<td>10,207.9</td>
<td>8,987.9</td>
<td>9,281.2</td>
<td>9,688.6</td>
<td>9,807.0</td>
<td>9,789.2</td>
<td>9,690.2</td>
<td>8,667.5</td>
<td>-13%</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Length of lines (kilometres)</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>Δ%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe including Turkey</td>
<td>264,630</td>
<td>263,806</td>
<td>268,468</td>
<td>285,408</td>
<td>270,342</td>
<td>265,116</td>
<td>265,231</td>
<td>263,248</td>
<td>258,270</td>
<td>-2%</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>84,158</td>
<td>85,194</td>
<td>85,281</td>
<td>85,292</td>
<td>85,167</td>
<td>84,249</td>
<td>84,249</td>
<td>85,266</td>
<td>85,262</td>
<td>0%</td>
</tr>
<tr>
<td>Africa</td>
<td>52,400</td>
<td>52,482</td>
<td>52,299</td>
<td>50,275</td>
<td>70,506</td>
<td>70,505</td>
<td>70,505</td>
<td>50,959</td>
<td>56,060</td>
<td>8%</td>
</tr>
<tr>
<td>America</td>
<td>389,863</td>
<td>386,773</td>
<td>383,079</td>
<td>375,774</td>
<td>369,222</td>
<td>369,222</td>
<td>381,538</td>
<td>371,114</td>
<td>240,155</td>
<td>-55%</td>
</tr>
<tr>
<td>Asia Oceania and Middle East</td>
<td>222,645</td>
<td>221,827</td>
<td>224,151</td>
<td>224,205</td>
<td>233,570</td>
<td>232,366</td>
<td>227,707</td>
<td>229,702</td>
<td>232,714</td>
<td>1.3%</td>
</tr>
<tr>
<td>WORLD estimates</td>
<td>1,013,696</td>
<td>1,010,082</td>
<td>1,013,276</td>
<td>1,020,953</td>
<td>1,028,806</td>
<td>1,021,457</td>
<td>1,029,230</td>
<td>1,000,289</td>
<td>872,001</td>
<td>-14.7%</td>
</tr>
</tbody>
</table>
Passenger-kilometres Share in 2015

- Asia Oceania and Middle East: 77%
- Europe including Turkey: 16%
- Russian Federation: 4%
- Africa: 2%
- America: 1%
Tonne-kilometres Share in 2015

- America: 29%
- Asia Oceania and Middle East: 36%
- Russian Federation: 27%
- Europe including Turkey: 6%
- Africa: 2%
Length of lines Share in 2015

- Europe including Turkey: 30%
- Russia Federation: 10%
- Africa: 6%
- America: 27%
- Asia Oceania and Middle East: 27%
High Speed Traffic 2015
passenger-kilometres in billions

Chinese Railways 386,3
SNCF 50
JR 2014 90,3
DB AG 24,2
KORAIL 2014 14,4
FS SpA 2012 12,8
RENFE 2012 14,1
Eurostar Intl 2011 4,4
SJ 3,4
RZD 2,7
Other Europe* 5,6

Other Europe *: CD 2013, CP, NS, PKP, SNCB 2011, SZ, TCDD, VR
High Speed Traffic in China

<table>
<thead>
<tr>
<th>Year</th>
<th>Billion of Pkm</th>
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<tbody>
<tr>
<td>2010</td>
<td>46</td>
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<tr>
<td>2011</td>
<td>106</td>
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<tr>
<td>2012</td>
<td>145</td>
</tr>
<tr>
<td>2014</td>
<td>282</td>
</tr>
<tr>
<td>2015</td>
<td>386</td>
</tr>
</tbody>
</table>
A strategic vision for the rail development in every region of the world

http://africa.uic.org/squelettes/AFRICA_Strategic_Vision.pdf
http://latin-america.uic.org/squelettes/LATIN-AMERICA_Strategic_Vision.pdf
http://europe.uic.org/IMG/pdf/europe_challenge2050.pdf
http://europe.uic.org/IMG/pdf/rail_technical_strategy_europe.pdf
Global Vision for railway development

ACCESSING UIC RESOURCES: PUBLIC
ACCESSING UIC RESOURCES: STANDARDS
Thank you for your kind attention

Snejana Markovic-Chénais

markovic@uic.org
Statistique Internationale des Chemins de Fer
Internationale Eisenbahnstatistik
International Railway Statistics

2014

For more publications, visit our website at http://uic.org
On-line data collection tool available for UIC members

- Explanatory notes are in line with the ITF / UNECE / Eurostat glossary
- Need to be registered, statistics correspondents are identified
- Data are annually and monthly collected for now
- Previous period data are proposed in the questionnaire
- Possible excel export since February 2016 to ease validation by data owners if needed
Main concerns

> Less participants to data collection even if on-line completed

> Confidentiality concerns underlined by some members

> Temporary situation:

  > Reciprocity principle decided for 2013 data and later but aggregated figures are possible

  > Precise survey among members to be completed in order to define which parameter will not be confidential