

unity, solidarity, universality

Statistics at the International Union of Railways

Alice Favre - Statistics Office favre @uic.org

UIC - Presentation

The International Union of Railways counts 196 members.

>>> **145** are railway companies or associations of railway companies

>>> Other members are administrations, research institutes...



~ 100 railway companies participate to the statistics group

At least one statistics correspondent per company

Steering committee :

Chairman: Roman Sterba SZDC (CZ) 17 collaborators from 10 railway companies + CER (Communauté Européenne du Rail)

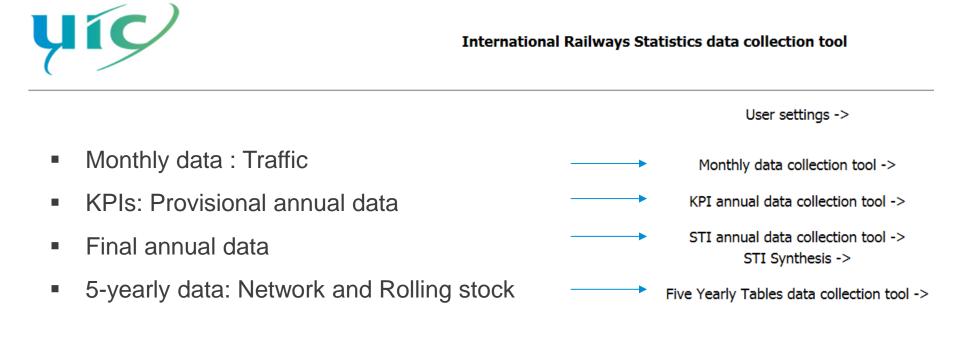
Meeting twice a year

Plenary meeting in November open to all our statistics correspondents.



4 online questionnaires

3 languages: English\French\German



<- Logout

Data collection

Monthly data Pkm 2013-2017 **DB-AG** (Germany) 7200 6800 Traffic: Passenger millions 6400 Freight -Actual - Above average Actual - Bellow average 8000 • Seasonal Filter Trains 2013 2014 2015 2016 2017 2018 Time ŲíÇ Relative Change - Q1. (2017, 2016) % Monthly data collection -50 -40 -30 -20 -10 10 20 30 40 DB AG < Select a company : Railway Undertaking WB 2018 🗸 Select year : SNCB/NMBS Passenger Traffic BDZ PP - Passenger carried Railway undertaking - Passenger Traffic CD - Passenger-kilometres DB AG Pkm - Month X 1 000 000 DSB Wagon load freight Traffic / Global Legend FGC eader Data in Production database - Tonnes carried Step 1 : data entry RENFE - Tonne-kilometres Header Data in Application VR Wagon load freight Traffic / Trafic international SNCF MOBILITES HZ PASSENGER - Tonnes carried - Tonne-kilometres GYSEV/RÖEE Months 2016 2017 2018 2018 🕡 Comment MAV 01 - January 6255.68 6460.58 6553.14 6553,14 ÷ LG LDZ Infrastructure manager 02 - February 6129,37 6068,24 6316,84 6316,84 Ŧ PKP - Passenger trains 03 - March 6584,4 6836,2 CP - Freight trains CFR CALATORI 04 - April 6469.59 6680.8 SZ 05 - May 6741,62 6994,4 ZSSK SBB CFF FFS 06 - June 6780,94 6936,28 ZFBH 07 - July 6895,8 7225,38 ZRS BC 08 - August 6637.44 7037.41 SERBIA TRANSPORT 09 - September 6999,65 7108,91 RZD TCDD 10 - October 7179,53 7091,84 CPTM 11 - November 6824,24 6939,83 VIA RAIL SNCC 6923.37 7139,76 12 - December SETRAG 80421,63 82519.63 12869.98 12869.98 Total ISR KTZ Check Compiled report TRA <- Back menu AMTRAK

UíC

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Data collection

KPIs - provisional data

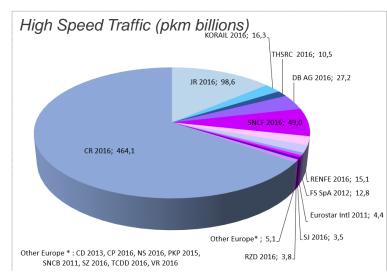
Network infrastructure

Rolling stock

Staff

Traffic (passenger, freight and trains)

Revenue per activity



YIC

KPI data collection tool Provisional data



Select year :	[2017 🗸			
Select a company :	[SBB CEE EES	~		
	L				
Step 1 : data entry		Export to Exc	cel		
	Table	Col.	2016	2017 🕡	var_i
Length of lines worked at the end of the	year				
Lines not electrified (km)					
single track	11	6	0,56	0,56	1106
double track or more	11	15	0	0	1115
Electrified lines (km)					
single track	11	10-11	1391,182	1385,303	1116
double track or more	11	11	1838,743	1845,659	1111
Train movements on the network of the	infrastructure man	ager			
Train.kilometres (thousands)					
Total	12	4	183704,303	182269,949	1204
Passenger trains	12	5	153463,109	152598,963	1205
Freigth trains	12	6	28969,846	28489,446	1206
Gross tonne.kilometres (millions)					
Total	13	4	75412,184	72783,492	1304
Passenger trains	13	5	49361,436	48830,943	1305
Freigth trains	13	6	25769,678	23702,258	1306
Fleet strength at end of year			1		
Tractive stock					
Diesel locomotives	21	4	406	395	2104
Electric locomotives	21	6	765	779	2106

Total of 40 variables collected



Data collection

Annual data

Collected from July to September

33 tables - 410 variables

yic	Data	collection tool	
Data type :	Production V		
Select year :	2016 🗸		
Select a company :	ADIF 🗸		
Select a table :	12 - Train movements on the network	of the infrastructure manager	× ×
Sten 1 · data entry			

Step 1 : data entry

		2015	2016 🖸	Calc	Comment	var_id	Visibility	Indicators financial	Indicators traffic, staff		
12 - Train movements on the network of the infrastructure manager											
thousand train-kilometres											
All modes of traction (including stear	n)							-			
	E	9366	8793	\checkmark	Ŧ	1204	Public 🗸]	*		
Total (Col.4)	L	142043	139834	\checkmark	Ŧ	1204	Public V		*		
	N	46165	46982	 Image: A start of the start of	Ð	1204	Public 🗸		*		
	_TOTAL	197574	195609	~	Ŧ	1204	Public 🗸		*		
	E	8437	8206		Ŧ	1205	Public 🗸]			
of which processors trains (Col E)	L	116062	114463		Ŧ	1205	Public 🗸				
of which passenger trains (Col.5)	N	46019	46835		Ŧ	1205	Public 🗸				
	_TOTAL	170518	169504		Ð	1205	Public 🗸]			
	E	929	587		Ŧ	1206	Public 🗸				
1			· · · · · · · · · · · · · · · · · · ·				Ir	1			

Network – Transport stock – Staff – Traffic – Punctuality – Financial Results – Energy – Accidents – High Speed



• 5 yearly data 2015

200 variables collected (every five years)

CATEGORY	Tables
NETWORK	Tracks and Installations
	Purpose-built wagons (for standard or broad gauge lines)
	Age of powered stock
TRANSPORT STOCK	Age of passenger transport stock
	Age of freight transport stock

ŲſĊ	Γ)ata collec	tion tool			?	
Select a year :	20	15 🗸					
Select a company :	AD	IF	\checkmark				
Select a table :	11/	A Tracks and i	installations 🗸	7			
Step 1 : data entry	E	xport to Excel					
		2010	2015 🕡	Calc	Comment	Visibili	ity
11A Tracks and installations							
Track length at end of year (in km)							
Non electrified			-			10	
Ion electrified	E	0	807		9	Public	
Total - Not electrified	L	5385	4880		9	Public	
I otal - Not electrified	N	0	0	1	Q	Public	
	_TOTAL	5385	5687		Q	Public	
	E		807	ì	Q	Public	
	L	5385	4880	i	Q	Public	
of which running tracks - Not electrified	N	0	0	i	Q	Public	
	_TOTAL	5385	5687	i 🔽	Q	Public	
Electrified				-1	1	P	
	E	18	483		9	Public	
	L	9300	10076	Ì	Q	Public	
Total - Electrified			4075				



Data verification

• Automated Control for users: Absolute difference with the previous year above 10% = red signal

	2015	2016 🕡	Calc	Control	var_id	Visibility	Indicators financial	Indicators traffic, staff
72 - Specific costs and revenue, Operating and general results for the fir	nancial year							
in millions National Currency								
Specific costs								
Material purchases and external charges	1		•					
Material purchases (Col.4)	751,0584	720,5043		-4,07%	7204	Public	✓	
External charges (Col.5)	1392,7217	1418,2468		1,83%	7205	Public	✓	
Total (Col.6)	2143,7801	2138,7511	~	-0,23%	7206	Public	*	
Staff costs			-					
Salaries and wages (Col.7)	3375,3662	3415,6142		1,19%	7207	Public	✓	
Social security costs (Col.8)	745,6567	752,5342		0,92%	7208	Public	✓	
Total (Col.9)	4121,0463	4168,1484	~	1,14%	7209	Public	✓ *	
Taxes (Col.10)	79,6044	88,3532		10,99%	7210	Public	✓ *	
Depreciation and amortisation (Col.11)	1940,0628	2130,3256		9,81%	7211	Public	✓ *	
Value adjustments and provision for contingencies (Col.12)	194,8116	173,9234		-10,72%	7212	Public	*	
Total operating expenses (Col.13=Col.6+Col.9+Col.10+Col.11+Col.12)	8479,3052	8699,5017	~	2,60%	7213	Public	*	
Financial charges (Col.14)	263.2316	146,5214	1	-44,34%	7214	Public	✓	

- Automated report on large anomalies for administrators
- Comparison of values coming from other sources such as ITF (non systematic approach)

Data consistency

Explanatory notes and definitions

>>> progressively aligned with the

"Glossary for Transport Statistics"

Train Movements on the network of the infrastructure manager

Each Infrastructure Manager (IM) indicates the total train runs performed by all railway operators on its own network.

Distance lengths are recorded per mode of traction and rounded off to the nearest kilometre.

Distances covered by tractive units on shunting duty, as well as train-ferry journeys, are excluded from the table.

Distinction is made between trains assigned to passenger traffic, those assigned to freight traffic and works trains.

The term <<works trains>> is defined in UIC Leaflet 390-1 R.

Trains identified in timetables as passenger trains, freight trains or works trains depending on the prime use to which they are put, are classified directly in the relevant category. Express-parcels and mail trains are in all cases classified as freight trains.

Explanatory Notes - 2/25

Passenger and freight trains running empty must also be identified with the passenger-train or freight-train category depending on the prime use to which they are put.

Where railcars and Multiple-Unit sets are concerned, if none of the runs performed by these vehicles falls in the "empty passenger train" <<mixed trains>> or "passenger works-train" category <<mixed trains>>, the IM should mention this fact in a footnote.

A train comprising coaches, wagons - and vans possibly - and destined for the transport of passengers and freight, is known as a mixed-consist train <<mixed trains>>.

When <<mixed trains>> cannot be classified in either the passenger transport or freight transport category, the runs made by them are computed separately, and subsequently allocated according to one of the following methods classified by order of preference:

- proportionately to the passenger and freight ghtk;
- proportionately to the passenger and freight vehicles or axle-km;
- according to fixed coefficients.

Totals include trains running with steam traction. They do not necessarily correspond to the sums of columns 7 & 10, 8 & 11, 9 & 13.

The number shown in each of these columns, which includes the train-km figure for works trains, is generally higher than the sum of train-km for passenger and freight trains.



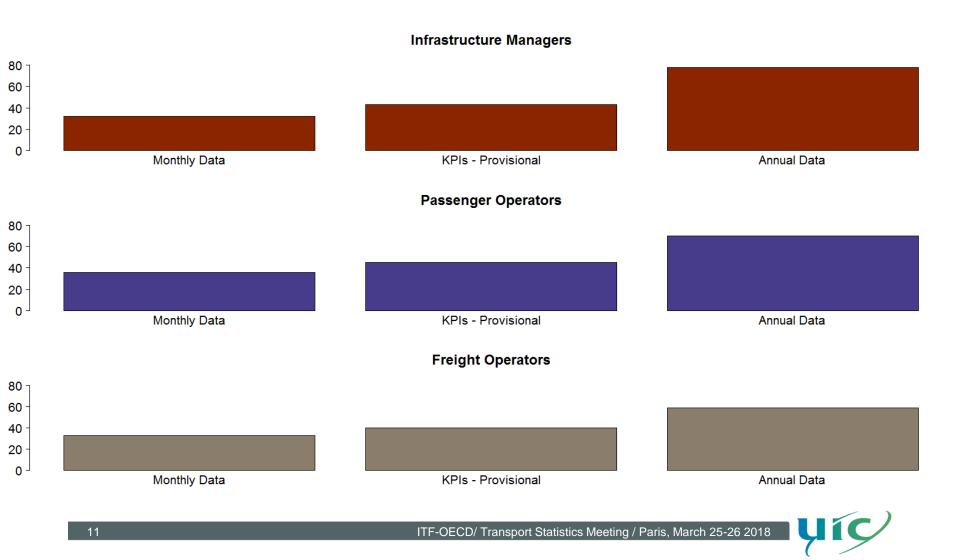
Tab. 12

Col. 4 to 6

Col. 4, 7, 10

Contribution

Level of participation (number of companies) Data 2016 – 3 collections



Online consultation for UIC members

Quarterly and annual traffic data

From 2012 to 2017

Can be downloaded

Railway undertaking - Passenger Traffic

Pkm - Month X 1 000 000

Region	Country	Company	2015	2016	м	%
	AT	WB	186	190	3	2,15
	BE	SNCB/NMBS	2666	2437	3	-8,58
	BG	BDZ PP	344,341	327,33	3	-4,94
	CZ	CD	1601	1675	3	4,62
	DE	DB AG	18715,24	18969,45	3	1,35
	DK	DSB	1456	1441	3	-1,03
	ES	FGC	211,79	219,04	3	3,42
	ES	RENFE	5582	5868	3	5,12
	FI	VR	930	932,9	3	0,31
	FR	SNCF MOBILITES	20042,317515	20122,387967	3	0,39
EU	GB	ATOC	5104,955163	5108,095772	1	0,06
EU	HR	HZ PASSENGER	215,4	218,7	3	1,53
	HU	GYSEV/RÖEE	76	76	3	0
	HU	MAV	1220	1206	3	-1,14
	IE	CIE	453	459	3	1,32



Railway Undertaking

Passenger Traffic

Passenger carried
 Passenger-kilometres

Wagon load freight Traffic / Global

- Tonnes carried
- Tonne-kilometres

Wagon load freight Traffic / Trafic international

- Tonnes carried
- Tonne-kilometres

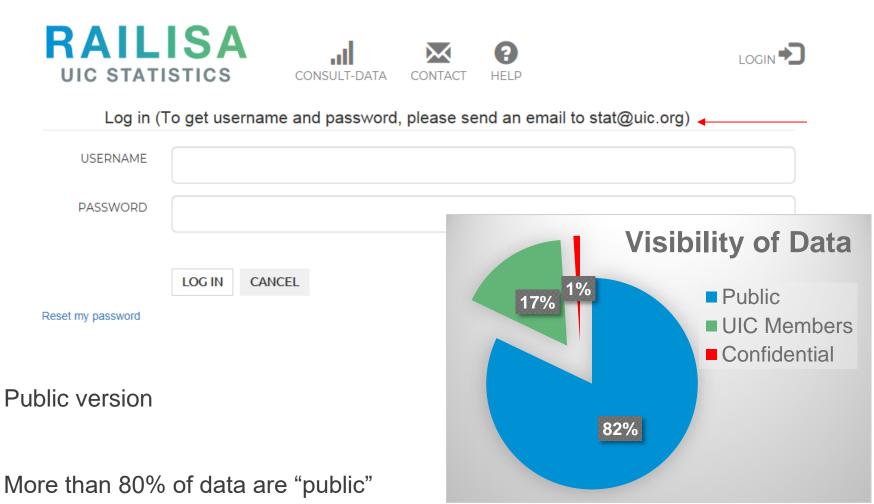
Infrastructure manager

- Passenger trains
- Freight trains

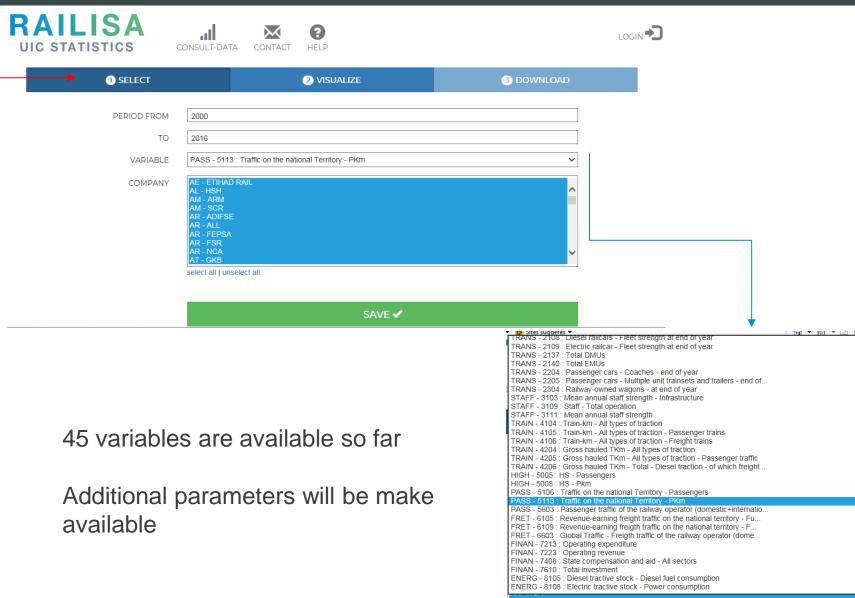
Full year	
Quarter 1	
Quarter 2	
Quarter 3	

View print	Export to Excel

http://uic-stats-pp.uic.org/







RAILISA

CONSULT-DATA CONTACT HELP

Import with Excel for instance

Contact: stat@uic.org

SELECT SE		2 VISUALIZE		3 DOWI	NLOAD	
VARIABLE	REGION	COUNTRY	COMPANY	YEAR	VALUE	UNIT
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Benin	OCBN	2003	66	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2000	75	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2001	106	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2002	115	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2003	160	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2004	94	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2005	94	Mp-km
PASS - 5113 : Traffic on the national Territory - PKm	AFRICA	Botswana	BOR	2006	94	Mp-km

Download in .csv

UIC_Variable_5113_2000-2016.csv

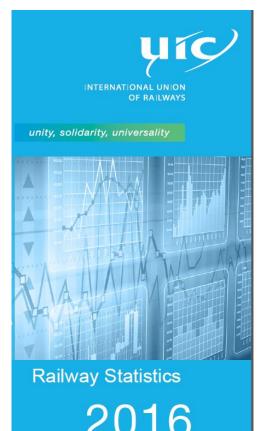
Microsoft Excel Comma Separated Values File (*.csv)

Domain 🛛 🔽 Va	arID 🔽 VarName	🕶 Unit 🔍	Region 💌	Country	Company 🔽	Y 2000 💌	Y 2001 💌	Y 2002 💌	Y 2003 💌	Y 2004 💌	Y 2005
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Benin	OCBN	na	na	na	66	na	na
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Botswana	BOR	75	106	115	160	94	94
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Democratic Republic of the Congo	ONATRA	na	na	na	na	na	na
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Democratic Republic of the Congo	SNCC	188	222	160	142	140	140.4
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Congo	CFCO	83.9	170.9	76	59	135	167.5
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Ivory Coast	SITARAIL	125.910	182	148	10	na	na
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Cameroon	CAMRAIL	327.1	302.8	308.5	319	308	324
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	DJIBOUTI	CDE	145	173	127	82	na	145
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Algeria	SNTF	1142	981	954.868	964	950	929
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Egypt	ENR	73565	46059	40837	na	na	na
Passenger Traffic	5113 Traffic on the national Territory - PKm	million passenger kilometre	AFRICA	Gabon	SETRAG	94	63	97	86	92	95

ITF-OECD/ Transport Statistics Meeting / Paris, March 25-26 2018

Publication

Railway Statistics – Synopsis KPIs- Provisional data

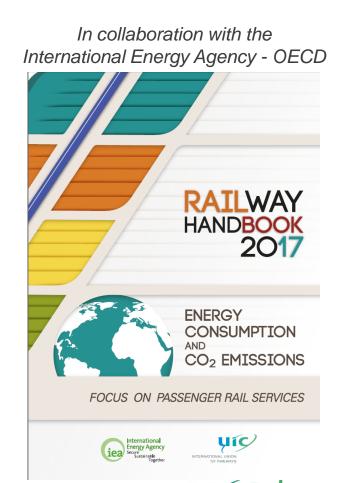


http://www.uic.org/

UIC Safety Report



Railway Handbook: Energy Consumption and CO2 emissions.



Improvement of online tools:

- Railisa
- Data collection >>> to make easier the data collection

Improvement of data quality





Alice Favre - Statistics Office favre@uic.org

