



INTERNATIONAL UNION  
OF RAILWAYS

*unity, solidarity, universality*

# 2015 Trends in Rail transport

Snejana MARKOVIC-CHENAIS

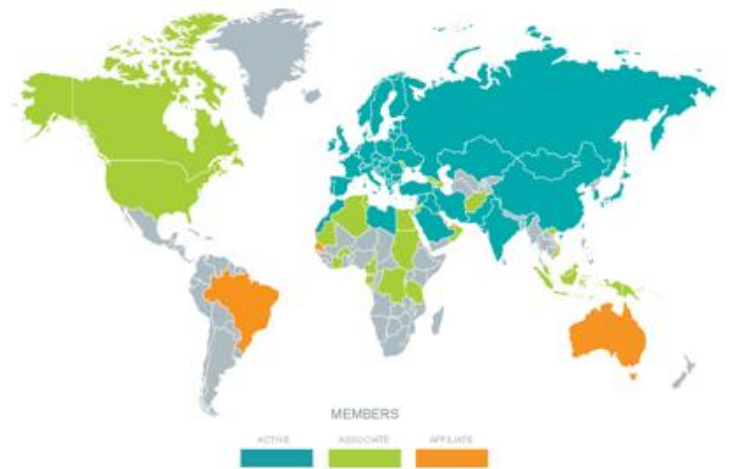
Economics Adviser

[\*markovic@uic.org\*](mailto:markovic@uic.org)

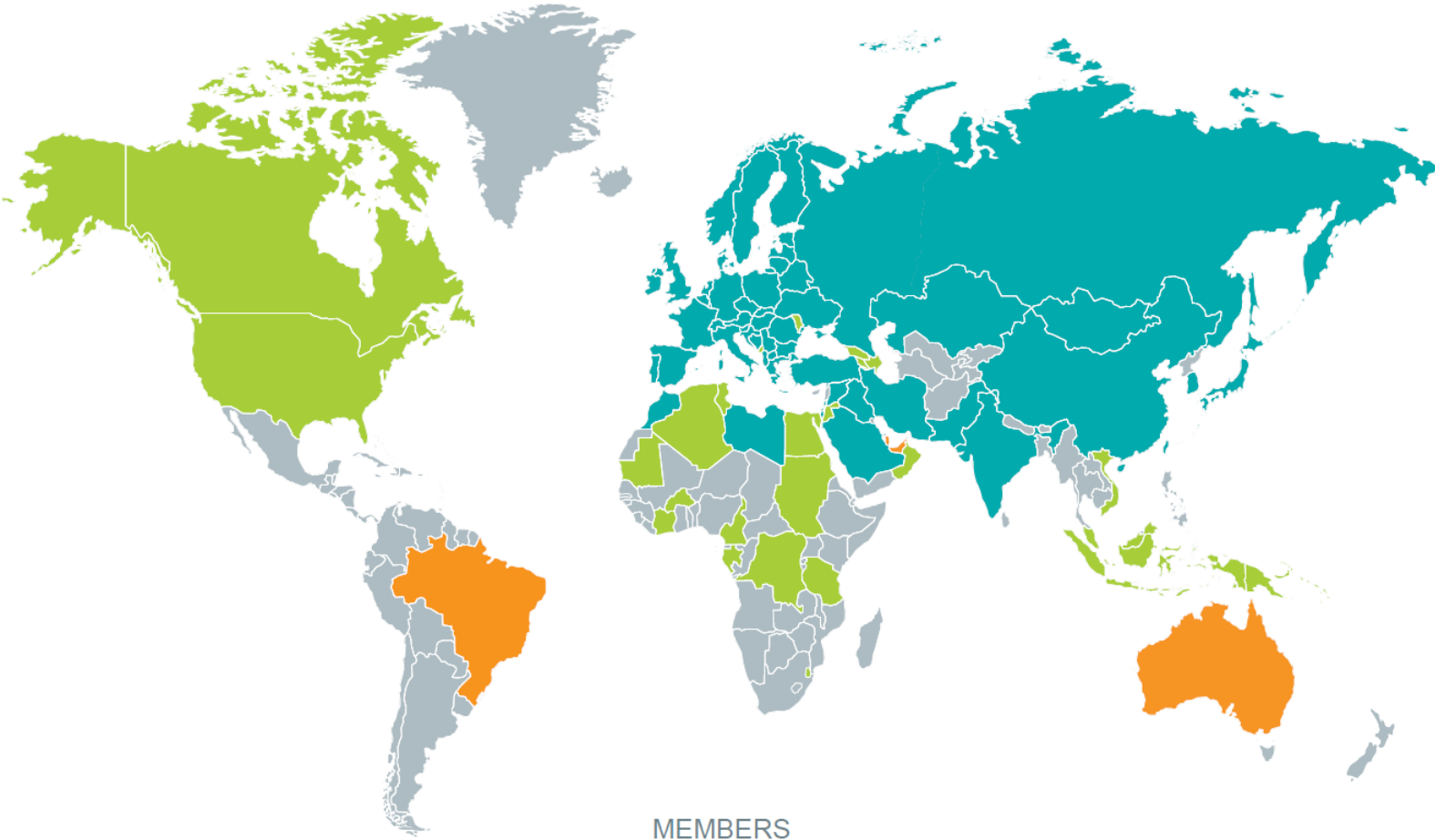
UNECE 5-7 September 2016 Transport and Economics

# 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



# UIC 2016



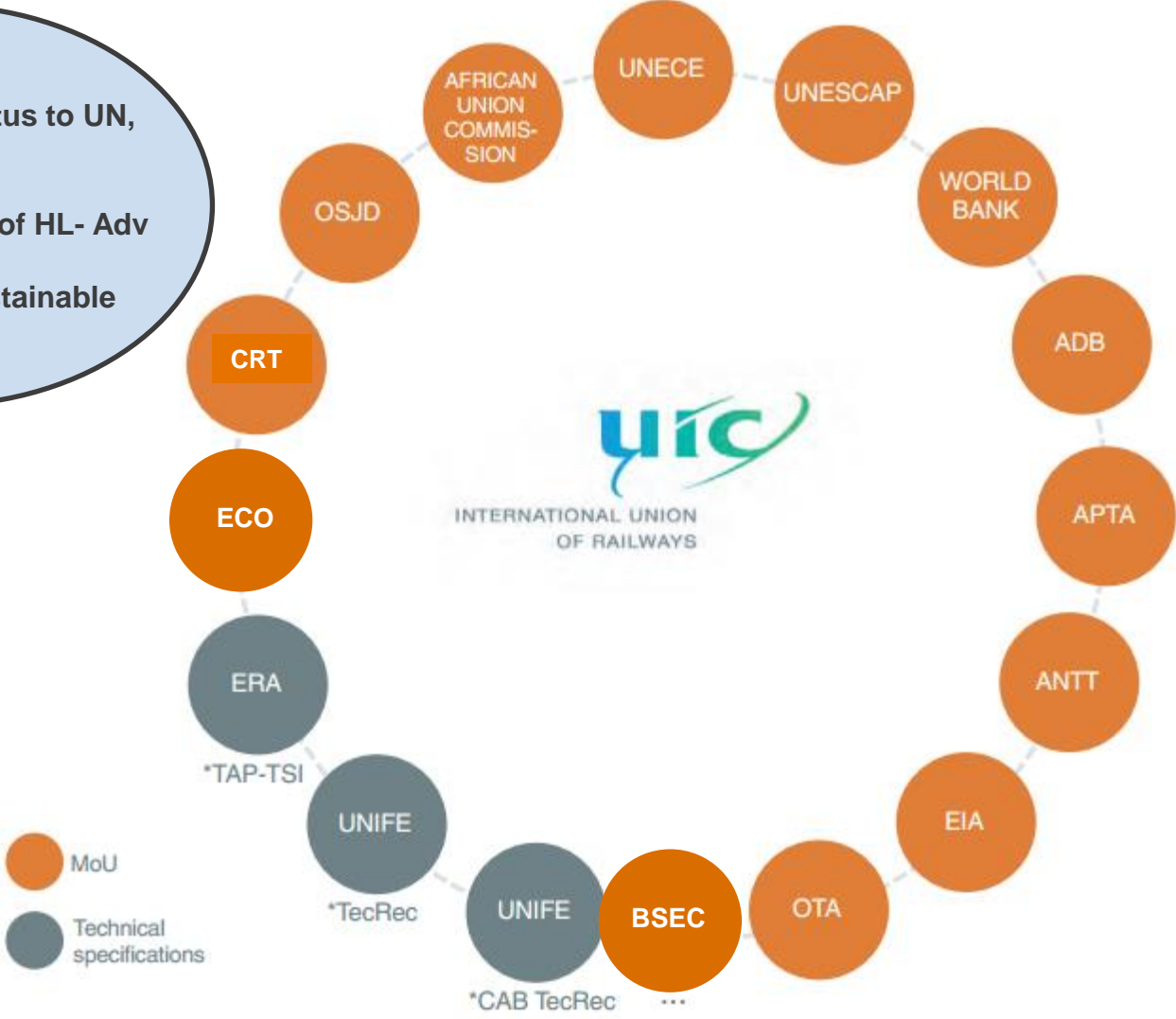
ACTIVE      ASSOCIATE      AFFILIATE



# 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



# 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



\* Since 2012

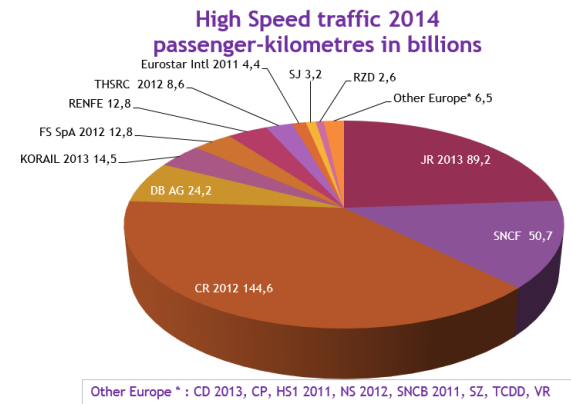


# Synopsis

## Provisional annual data - All continents

- > Length of lines
- > Rolling Stock
- > Average staff strength
- > Train performance in train-km
- > Rail Traffic in pass., pass-km, tonnes, tonne-km
- > High speed traffic

Country	Railway company	Area (km²)	Population	Population density	Length of lines worked at end of year			Stock at end of year				Average staff strength		Train performance		Revenue rail traffic			
					Total	of which double track or more	of which electrified lines	Locomotives	Railcars and Multiple Unit-sets	Coaches railcars & railcar trailers	Railway's own wagons	thousands	Δ% 14/13	Train kilometres	Gross train tonne-kilometres	Passenger		Freight	
					in kilometres			Motortractors						millions	Δ% 14/13	millions	Δ% 14/13	millions	Δ% 14/13
<b>Europe</b>	<b>Europe</b>				<b>340 514</b>	<b>139 594</b>	<b>100 545</b>	<b>49 594</b>	<b>48 880</b>	<b>119 947</b>	<b>920 214</b>	<b>2 412</b>	<b>5 597</b>	<b>6 111 129</b>	<b>694 159</b>	<b>2 868 199</b>			
<b>EU/UE</b>	<b>EU/UE</b>				<b>211 462</b>	<b>89 013</b>	<b>114 249</b>	<b>22 344</b>	<b>38 122</b>	<b>97 366</b>	<b>368 884</b>	<b>1 069</b>	<b>3 426</b>	<b>1 167 861</b>	<b>391 394</b>	<b>281 854</b>			
Austria	GKB	84	8.5	103	91	-	-	13	26	24	43	0.4	2	161	123	8			
	ÖBB	-	-	-	4 967	2 064	3 527	1 103	461	2 850	18 544	41	0.3	125	63 115	235			
	WB	-	-	-	-	-	-	-	-	-	-	0.1	6	5	3	5			
	WLB Cargo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Belgium	SNCF/NMBS	31	11.1	370	3 578	2 692	3 005	376	812	2 345	11 612	36	95	39 908	229	10 848			
Bulgaria	BDZ CARGO	111	7.3	67	-	-	-	207	-	-	4 895	4	-1	5	4 321	9			
	BDZ PP	-	-	-	-	-	-	198	81	767	-	6	0.4	21	3 779	25			
	BRC	-	-	-	-	-	-	34	-	-	413	0.3	4	1	1 424	-7			
	BULMARKET	-	-	-	-	-	-	14	-	-	227	0.1	0.3	123	-	0.5			
	NRIC	-	-	-	4 023	989	2 861	-	-	-	-	12	-3	-	-	-			
Croatia	HZ CARGO	57	4.3	76	-	-	-	187	-	-	5 518	2	-15	5	4 327	10			
	HZ Infra	-	-	-	2 604	253	970	-	-	-	-	5	-6	-	-	-3			
	HZ Passenger	-	-	-	-	-	-	79	35	529	-	2	-8	15	2 273	2			
Czech Rep.	CD	79	10.5	136	-	-	-	1 496	1 059	4 363	25 965	23	-4	141	43 551	170			
	SZDC	-	-	-	9 456	1 942	3 215	-	-	-	-	17	-0.4	-	-	-			
Denmark	BDK	43	5.6	132	2 131	927	620	-	-	-	-	2	-	-	-	-			
	DSB	-	-	-	-	-	-	53	312	1 993	-	8	2	54	-	163			
Estonia	EVR	45	1.3	29	792	97	132	75	-	-	2 931	2	-	6	10 323	4			
Finland	FTA	338	5.4	18	5 944	602	3 256	-	-	-	-	0.1	-	-	-	-			
	VR	-	-	-	-	-	-	465	194	1 181	9 078	8	-6	50	29 139	69			
France	RFF	640	66.0	121	30 013	17 072	15 768	2 594	3 182	17 587	15 017	149	-1	443	200 858	1 122			
	SNCF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.3			
Germany	DB AG	357	80.6	231	33 426	18 201	19 994	4 121	12 509	19 313	91 787	296	1	825	379 441	2 023			
Greece	OSE	132	11.0	86	2 238	524	494	173	128	718	3 758	2	-24	-	-	-			
	TRAINOSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Hungary	FLOYD	93	9.9	109	-	-	-	10	-	-	-	0.1	-	0.4	243	15			
	GySEV CARGO	-	-	-	-	-	-	-	-	-	92	0.2	2	1	1 160	1.3			
	GySEV/RÖEE	-	-	-	508	34	316	44	22	103	-	2	11	6	1 060	8			
	MAV	-	-	-	7 384	1 188	2 696	919	240	2 396	-	36	-3	91	23 092	111			



Available mid year for n-1

download it at <http://uic.org/statistics>

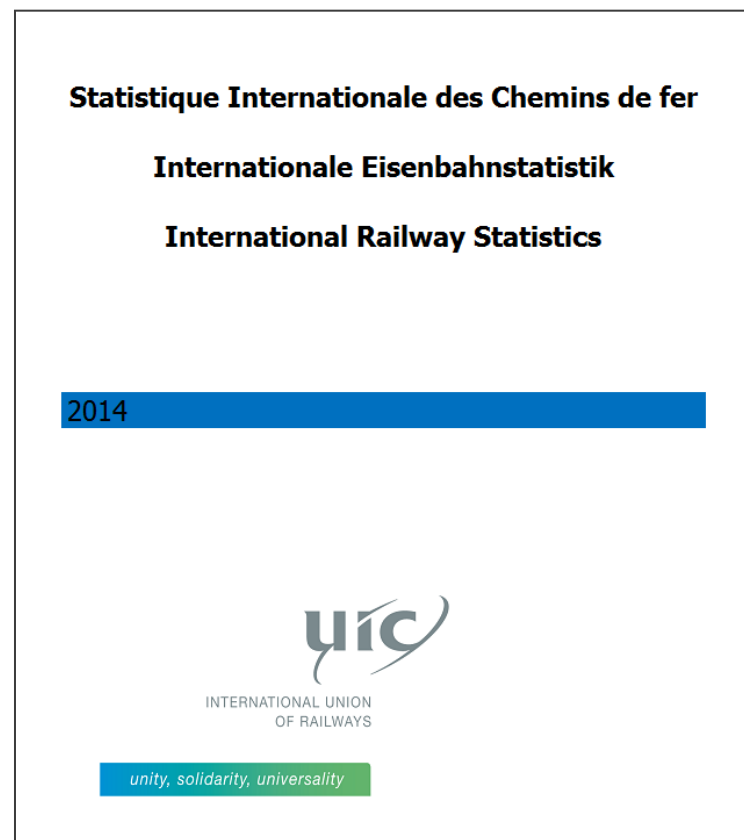


# International Railway Statistics

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

+ 5 yearly tables

- Yearly published
- Public data ?



# Cautious reading : we search solutions

## Passenger-kilometres (billions)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	Δ%
Europe including Turkey	469,2	483,8	470,5	472,8	485,6	480,0	476,1	475,3	463,3	-3%
Russian Federation	173,4	175,9	153,6	139,0	139,8	144,6	144,6	128,8	120,4	-7%
Africa	61,6	62,0	62,2	62,3	49,3	49,3	49,3	63,5	62,8	-1%
America	13,3	14,0	13,5	12,0	20,8	20,9	22,3	21,7	27,5	21%
Asia Oceania and Middle East	1 788,6	1 950,9	2 012,0	2 079,3	2 187,8	2 171,7	2 173,0	2 380,9	2 280,2	-4%
<b>WORLD estimates</b>	<b>2 506,1</b>	<b>2 686,6</b>	<b>2 711,9</b>	<b>2 765,4</b>	<b>2 883,4</b>	<b>2 866,6</b>	<b>2 865,3</b>	<b>3 070,2</b>	<b>2 954,3</b>	<b>-4%</b>

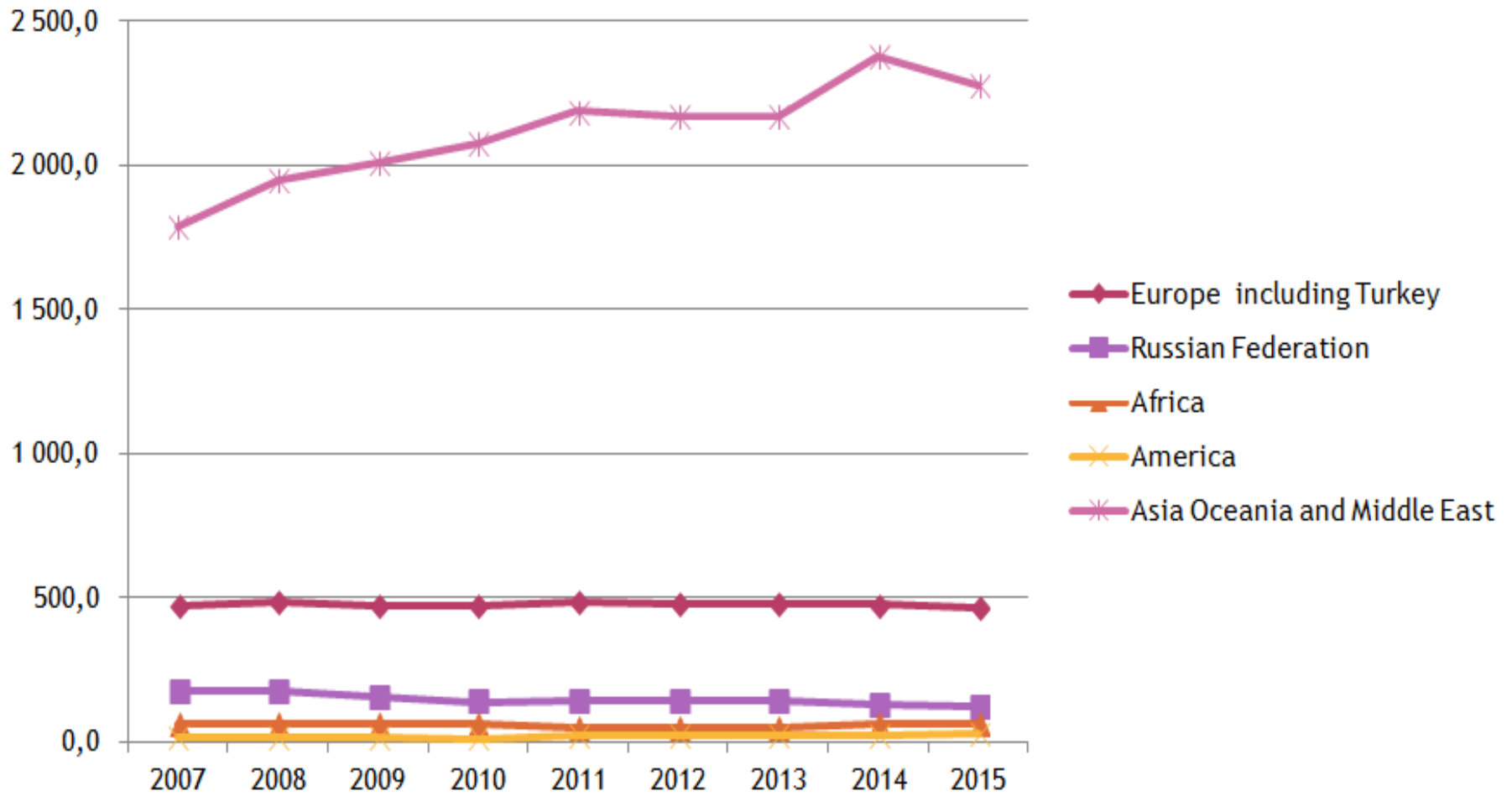
## Tonne-kilometres (billions)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	Δ%
Europe including Turkey	723,2	986,8	546,0	700,6	648,6	621,4	604,1	569,6	529,1	-8%
Russian Federation	2 090,3	2 116,2	1 865,3	1 903,2	2 127,2	2 222,4	2 222,4	2 298,6	2 304,8	0,3%
Africa	139,2	138,4	137,1	139,2	139,1	139,1	139,4	158,7	136,5	-16%
America	3 540,2	3 513,8	2 973,2	3 076,1	3 132,6	3 231,0	3 231,0	3 252,5	2 524,6	-29%
Asia Oceania and Middle East	3 095,9	3 452,7	3 466,2	3 462,0	3 621,2	3 593,1	3 592,3	3 410,7	3 072,5	-11%
<b>WORLD estimates</b>	<b>9 588,9</b>	<b>10 207,9</b>	<b>8 987,9</b>	<b>9 281,2</b>	<b>9 668,6</b>	<b>9 807,0</b>	<b>9 789,2</b>	<b>9 690,2</b>	<b>8 567,5</b>	<b>-13%</b>

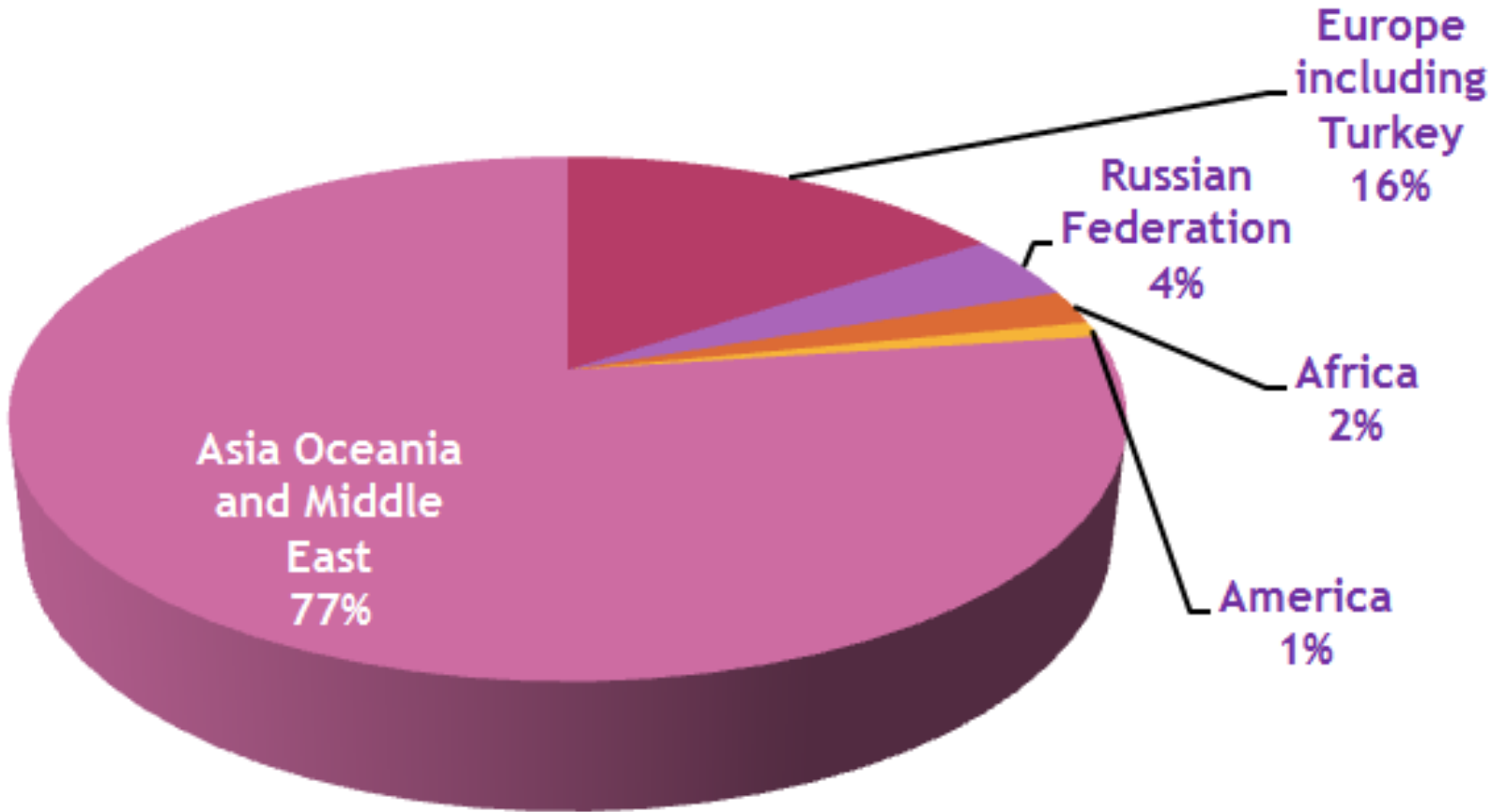
## Length of lines (kilometres)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	Δ%
Europe including Turkey	264 630	263 806	268 466	285 408	270 342	265 116	265 231	263 248	258 270	-2%
Russian Federation	84 158	85 194	85 281	85 292	85 167	84 249	84 249	85 266	85 262	0%
Africa	52 400	52 482	52 299	50 275	70 505	70 505	70 505	50 959	55 600	8%
America	389 863	386 773	383 079	375 774	369 222	369 222	381 538	371 114	240 155	-55%
Asia Oceania and Middle East	222 645	221 827	224 151	224 205	233 570	232 366	227 707	229 702	232 714	1,3%
<b>WORLD estimates</b>	<b>1 013 696</b>	<b>1 010 082</b>	<b>1 013 276</b>	<b>1 020 953</b>	<b>1 028 806</b>	<b>1 021 457</b>	<b>1 029 230</b>	<b>1 000 289</b>	<b>872 001</b>	<b>-14,7%</b>

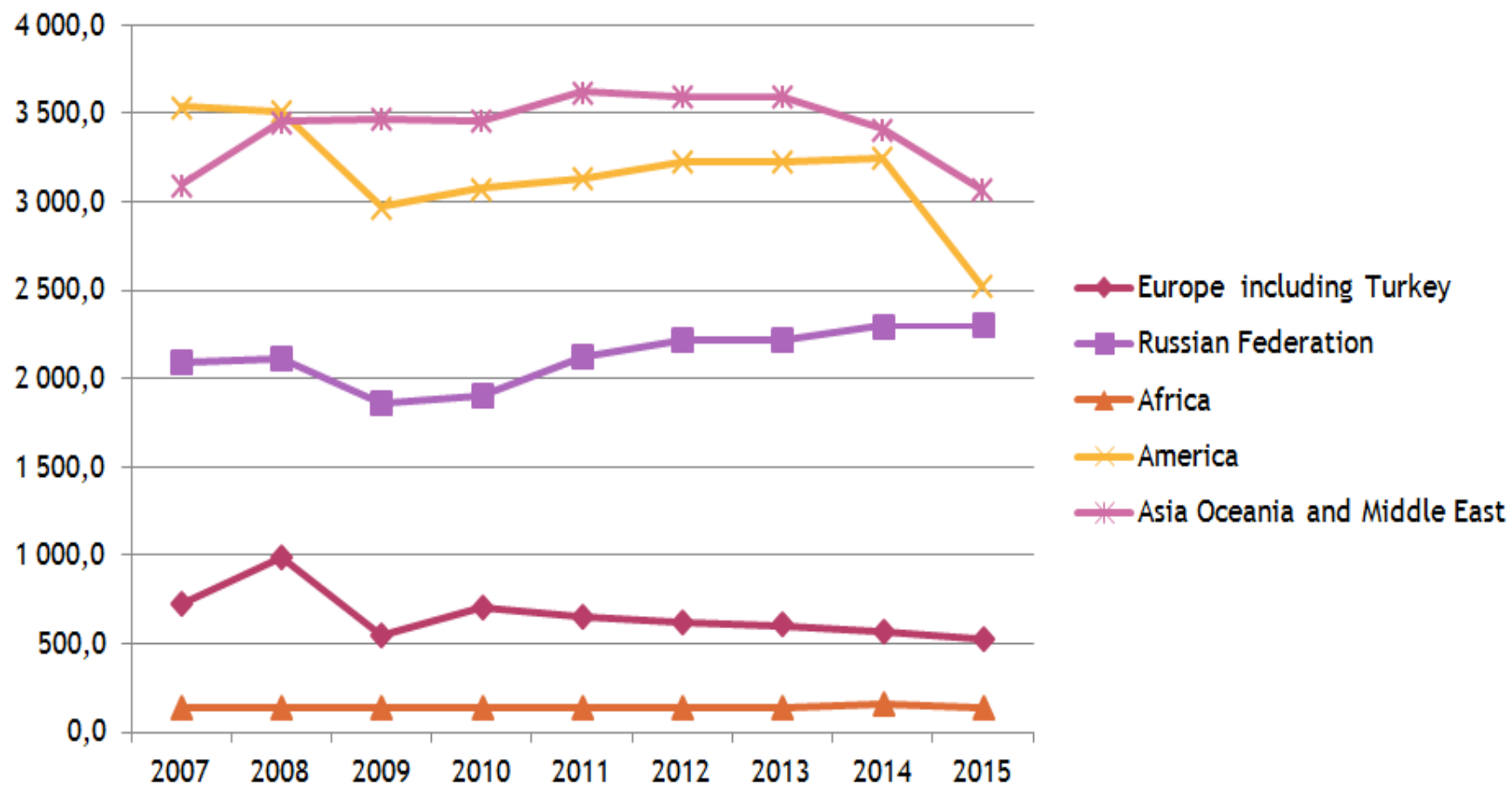
## Passenger-kilometres (billions)



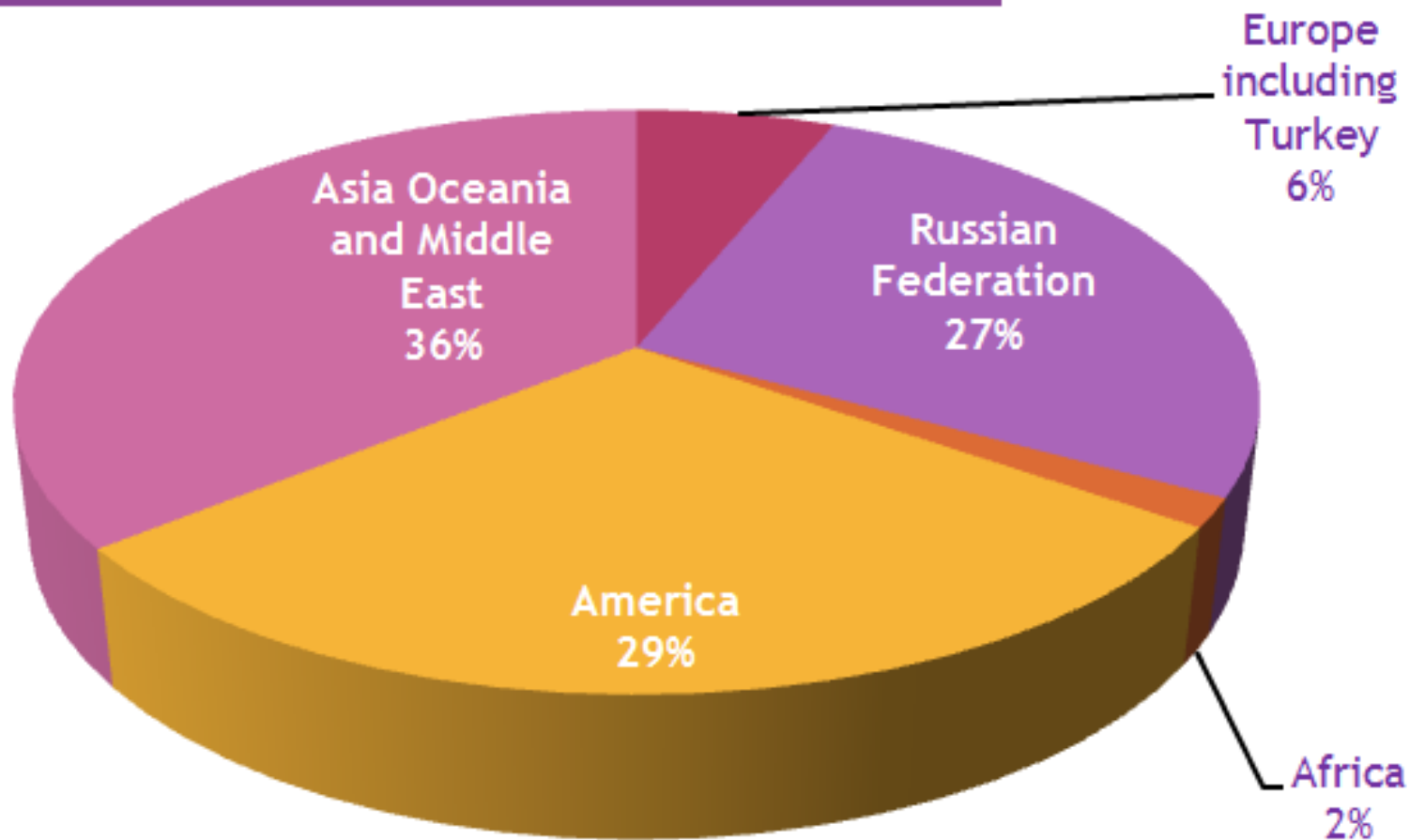
# Passenger-kilometres Share in 2015



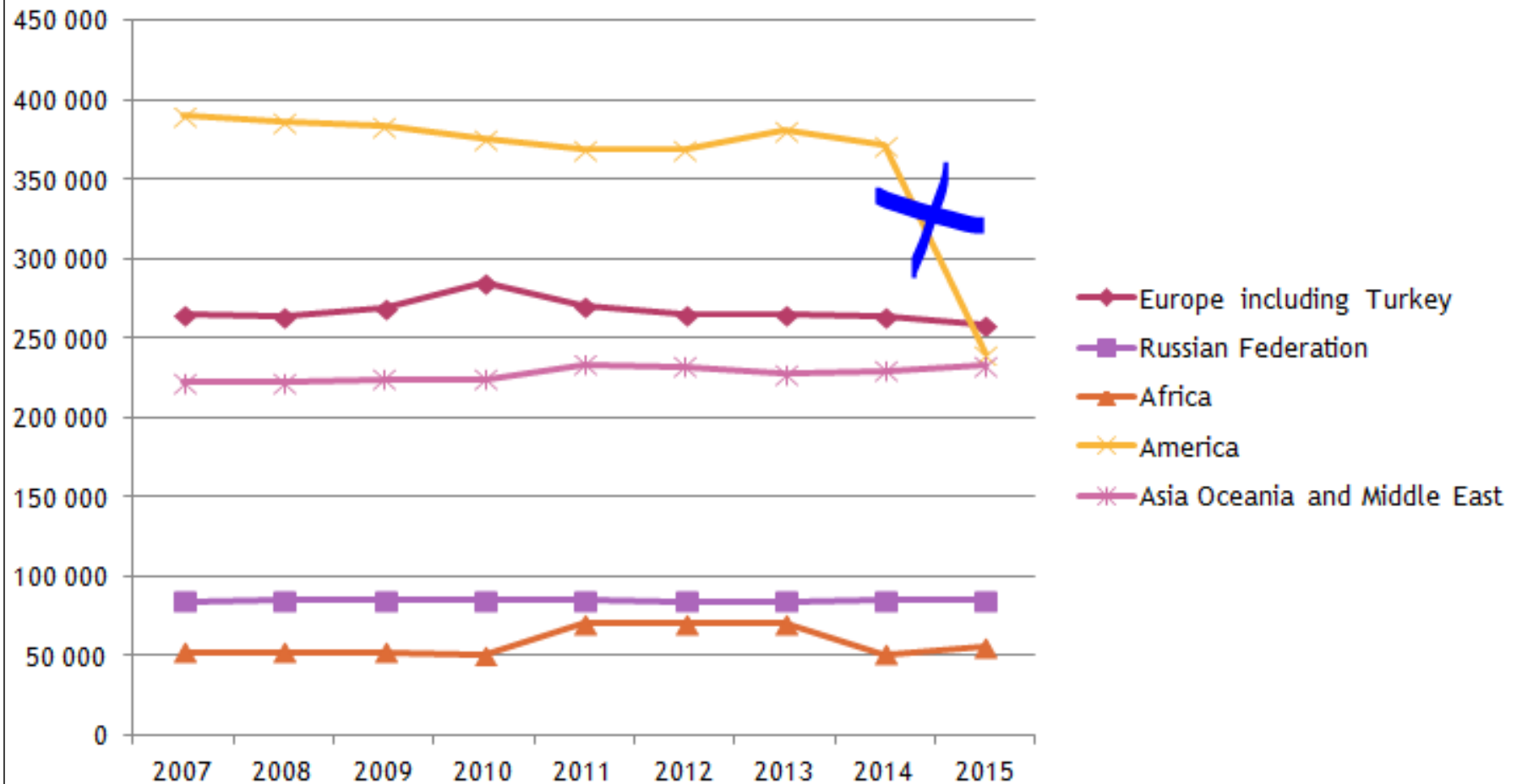
## Tonne-kilometres (billions)



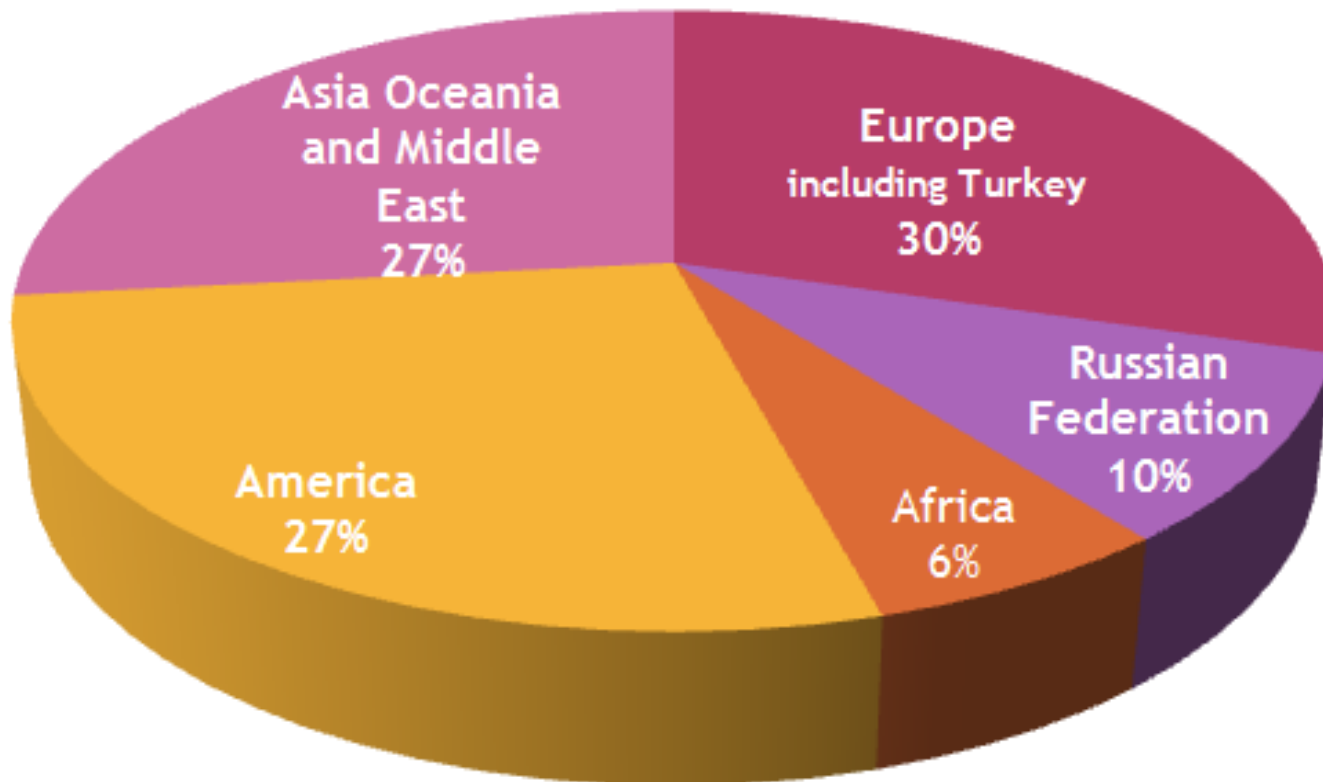
## Tonne-kilometres Share in 2015



## Length of lines (kilometres)

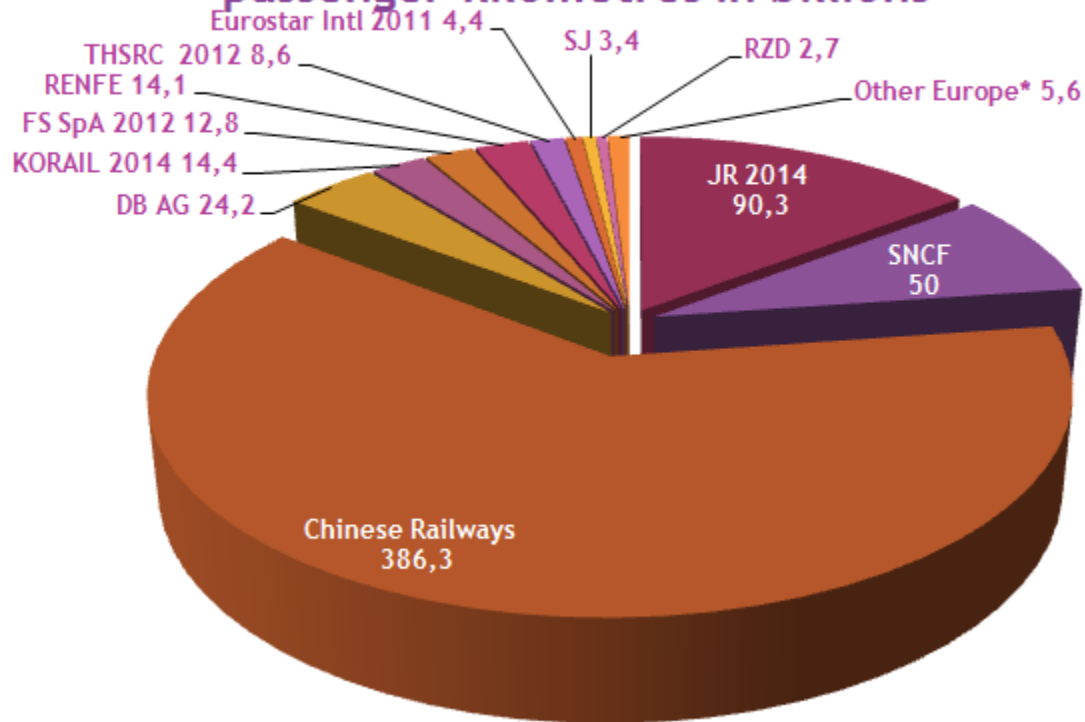


## Length of lines Share in 2015

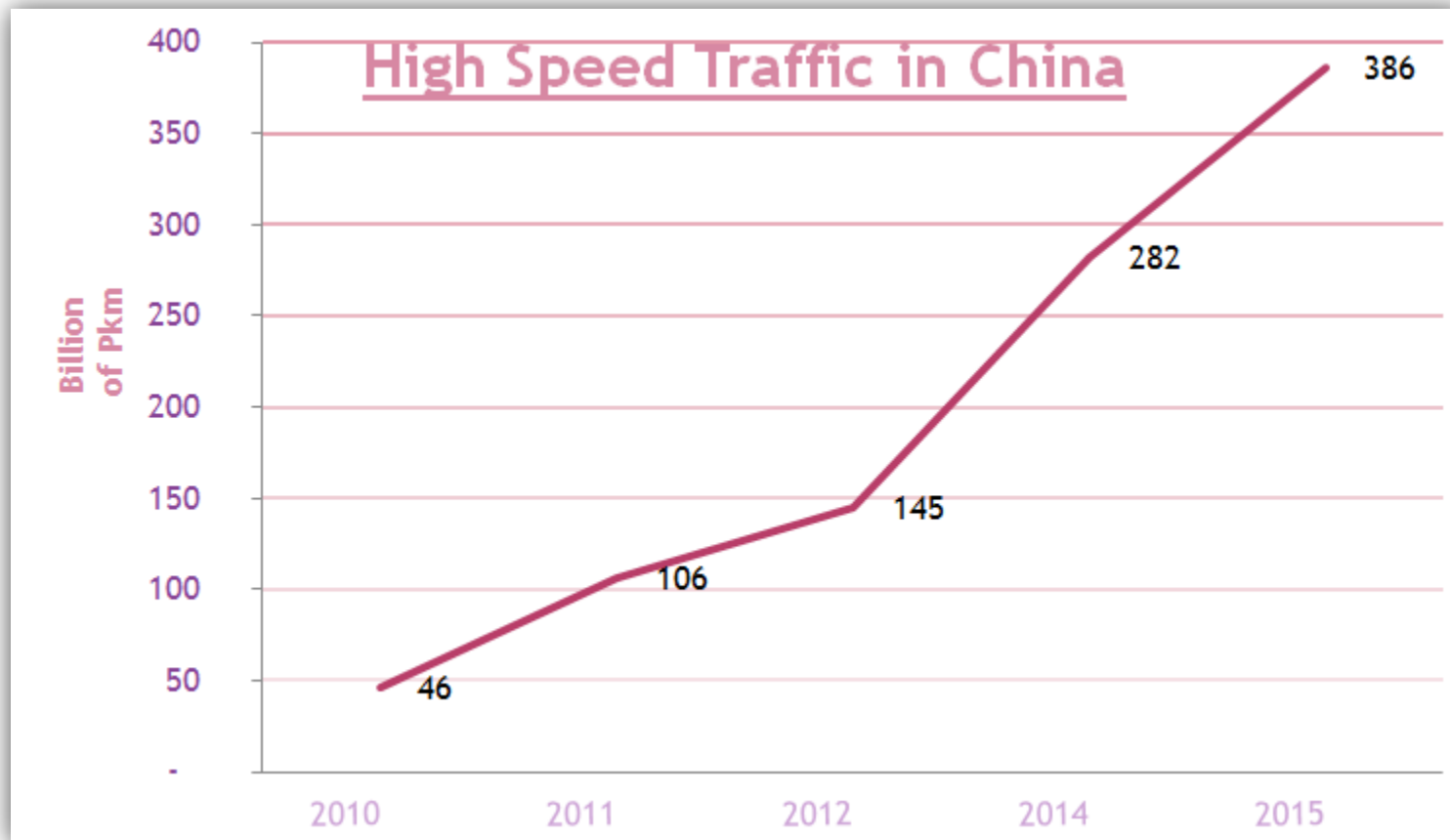




## High Speed Traffic 2015 passenger-kilometres in billions



Other Europe \* : CD 2013, CP, NS, PKP, SNCB 2011, SZ, TCDD, VR

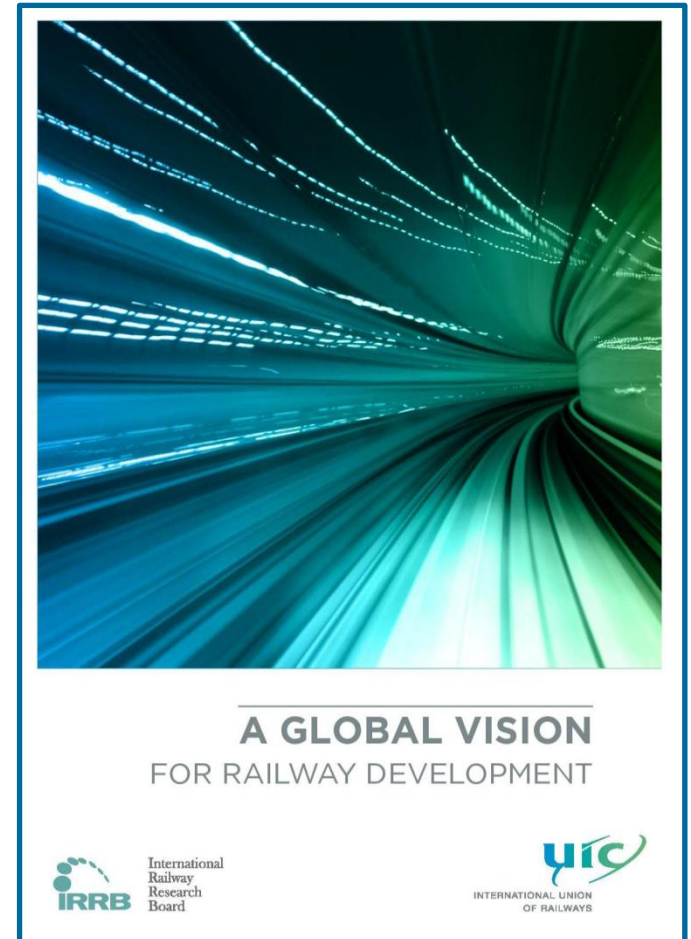


# A strategic vision for the rail development in every region of the world



- [http://africa.uic.org/squelettes/AFRICA\\_Strategic\\_Vision.pdf](http://africa.uic.org/squelettes/AFRICA_Strategic_Vision.pdf)
- [http://asia.uic.org/squelettes/SAP\\_Asia-Pacific%202016-2019\\_light.pdf](http://asia.uic.org/squelettes/SAP_Asia-Pacific%202016-2019_light.pdf)
- [http://latin-america.uic.org/squelettes/LATIN-AMERICA\\_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/europe_challenge2050.pdf)
- [http://europe.uic.org/IMG/pdf/rail\\_technical\\_strategy\\_europe.pdf](http://europe.uic.org/IMG/pdf/rail_technical_strategy_europe.pdf)
- [http://north-america.uic.org/squelettes/NORTH-AMERICA\\_Strategic\\_Vision.pdf](http://north-america.uic.org/squelettes/NORTH-AMERICA_Strategic_Vision.pdf)

# Global Vision for railway development

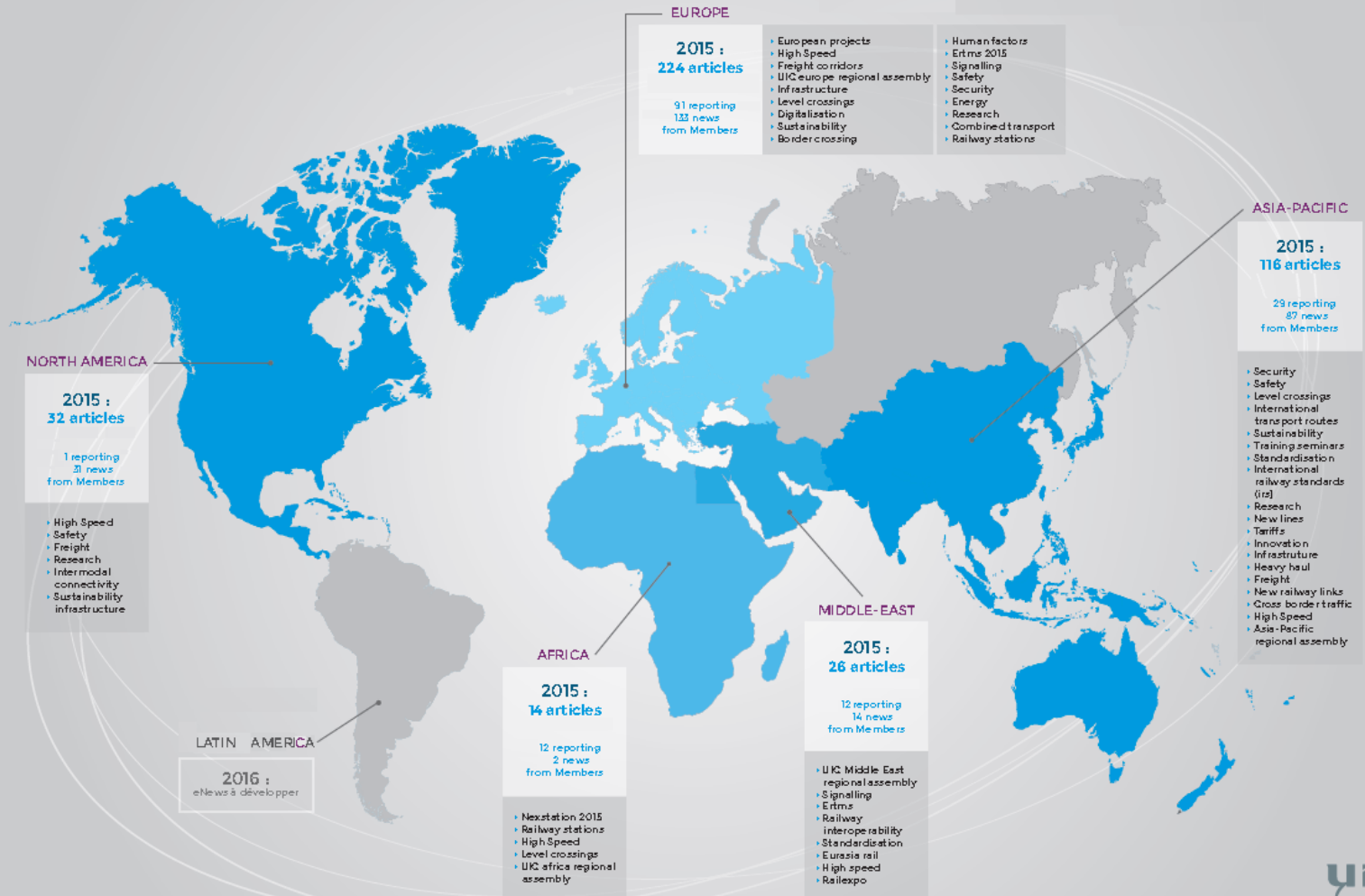


[http://www.uic.org/IMG/pdf/global\\_vision\\_for\\_railway\\_development.pdf](http://www.uic.org/IMG/pdf/global_vision_for_railway_development.pdf)

# UIC CONFERENCES – FIRST HALF 2016



# UIC ENEWS, INTERNATIONAL COMMUNICATION TOOL



unity, solidarity, universality



# ACCESSING UIC RESOURCES: PUBLIC

The screenshot shows the UIC website homepage. At the top, there is a browser address bar with 'uic.org' and a search bar. The navigation menu includes 'ABOUT', 'ACTIVITIES', 'REGIONS', and 'PRODUCTS & SERVICES'. The hero banner features a blurred image of a train with the text 'UIC THE WORLDWIDE RAILWAY ORGANISATION'. Below the banner is a horizontal menu with icons for 'ENEWS', 'PUBLICATIONS', 'LEAFLETS', 'VIDEOS', 'MEETINGS', and 'UIC MEMBERS'. The 'EVENTS' section displays four event cards: '1st TRAINING ON COMMUTER AND REGIONAL TRAIN SERVICES' (28-30 September, Rome), '9th APNRTC Seoul Korea' (29th September - 01st October 2016), 'INTERNATIONAL RAILWAY SAFETY COUNCIL' (Paris, 2-7 October 2016), and 'DIGITAL DAYS' (7-8 October 2016, Paris UIC Headquarters). The 'CRITIS 2016' card indicates the 11th International Conference on Critical Information Infrastructures Security (10-12 October 2016, UIC HQ Paris, France). Below the events are sections for 'ENEWS ARTICLES' and 'UIC PUBLICATIONS', each with several thumbnail images.

# ACCESSING UIC RESOURCES: STANDARDS

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3331 Publication(s) Sort by: Reference Sub categories: 0 - Statutes and Regulations

Page: 1 2 3 4 5 >

Language	Title	Description	Price
DE	STA 6/90 DE	Regeln für die Erstellung der Statistik der Internationalen Personenverkehrsströme	€24.00 excl. VAT
EN	STA 6/90 EN	Rules for compiling flow statistics for international passenger traffic	€24.00 excl. VAT
FR	STA 6/90 FR	Règles à suivre pour l'établissement d'une statistique par flux du trafic international voyageurs	€24.00 excl. VAT
DE	STA 4/84 DE	EDV-mäßig erstellte Statistik des internationalen Güterverkehrs (STIMTRI) - EDV-mäßige Erstellung detaillierter...	€0.00 excl. VAT
EN	STA 4/84 EN	Computerised international freight traffic statistics (STIMTRI) - Preparation of detailed statistics on international...	€0.00 excl. VAT
FR	STA 4/84 FR	Statistique Internationale Marchandises par Traitement Informatique (STIMTRI) - Etablissement de Statistiques...	€0.00 excl. VAT

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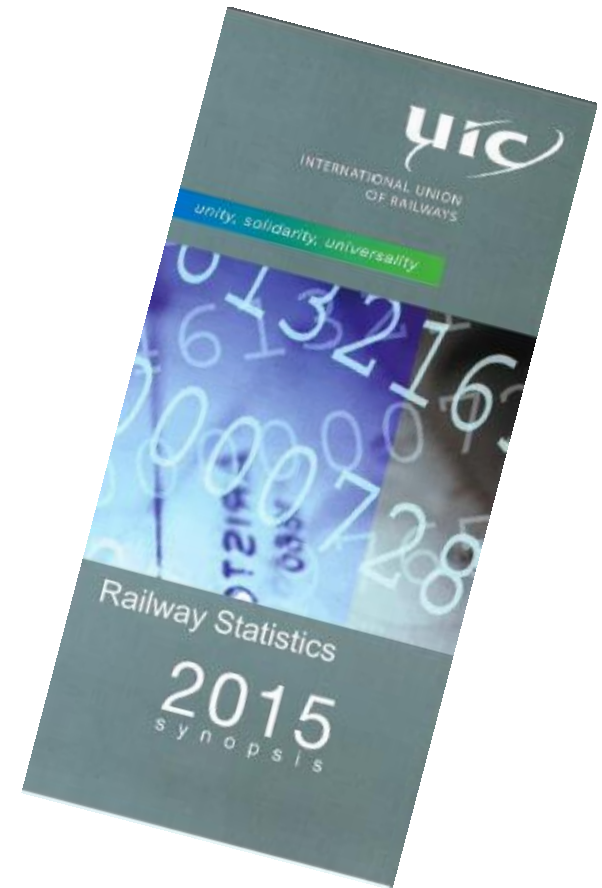


■ ■ ■ Thank you for your kind attention

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# Available



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