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Economic Commission for Europe

Inland Transport Committee

Working Party on Transport Trends and Economics

Twenty-eighth session

Geneva, 5–7 September 2016

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



INTERNATIONAL UNION
OF RAILWAYS

unity, solidarity, universality

2015 Trends in Rail transport

Snejana MARKOVIC-CHENAIS

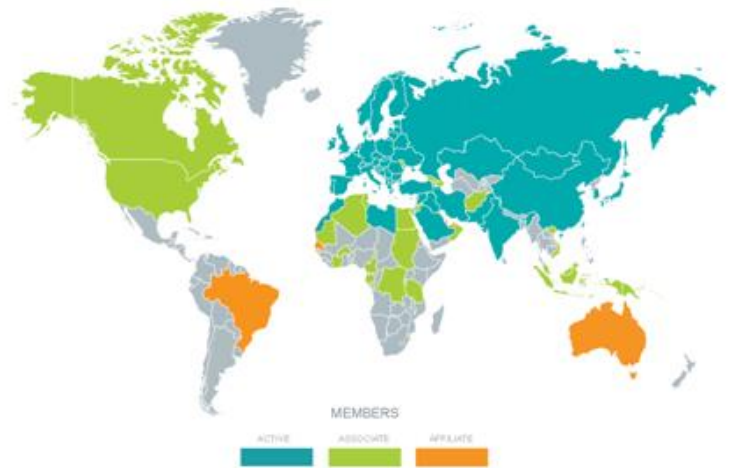
Economics Adviser

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

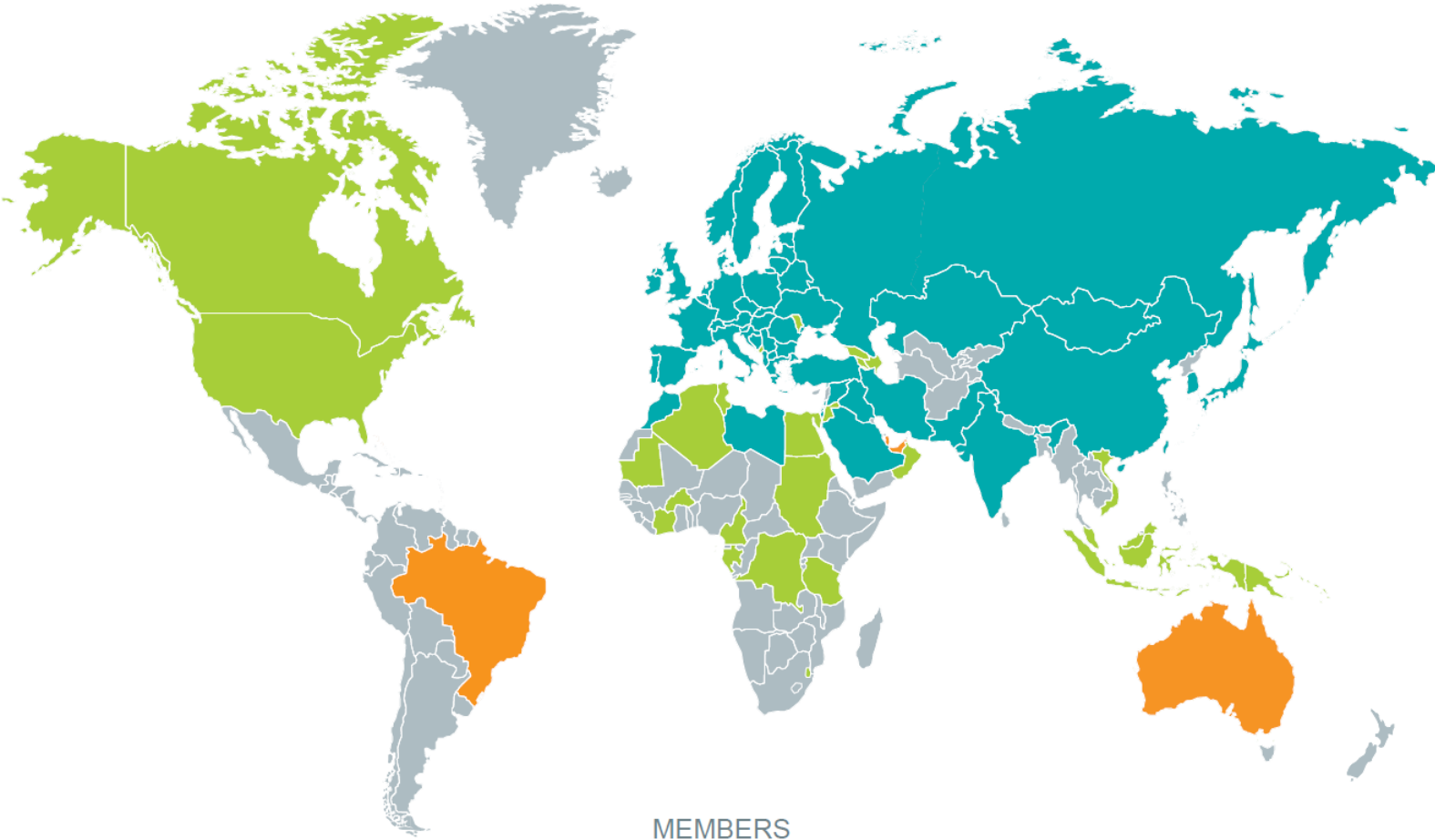
UNECE 5-7 September 2016 Transport and Economics

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



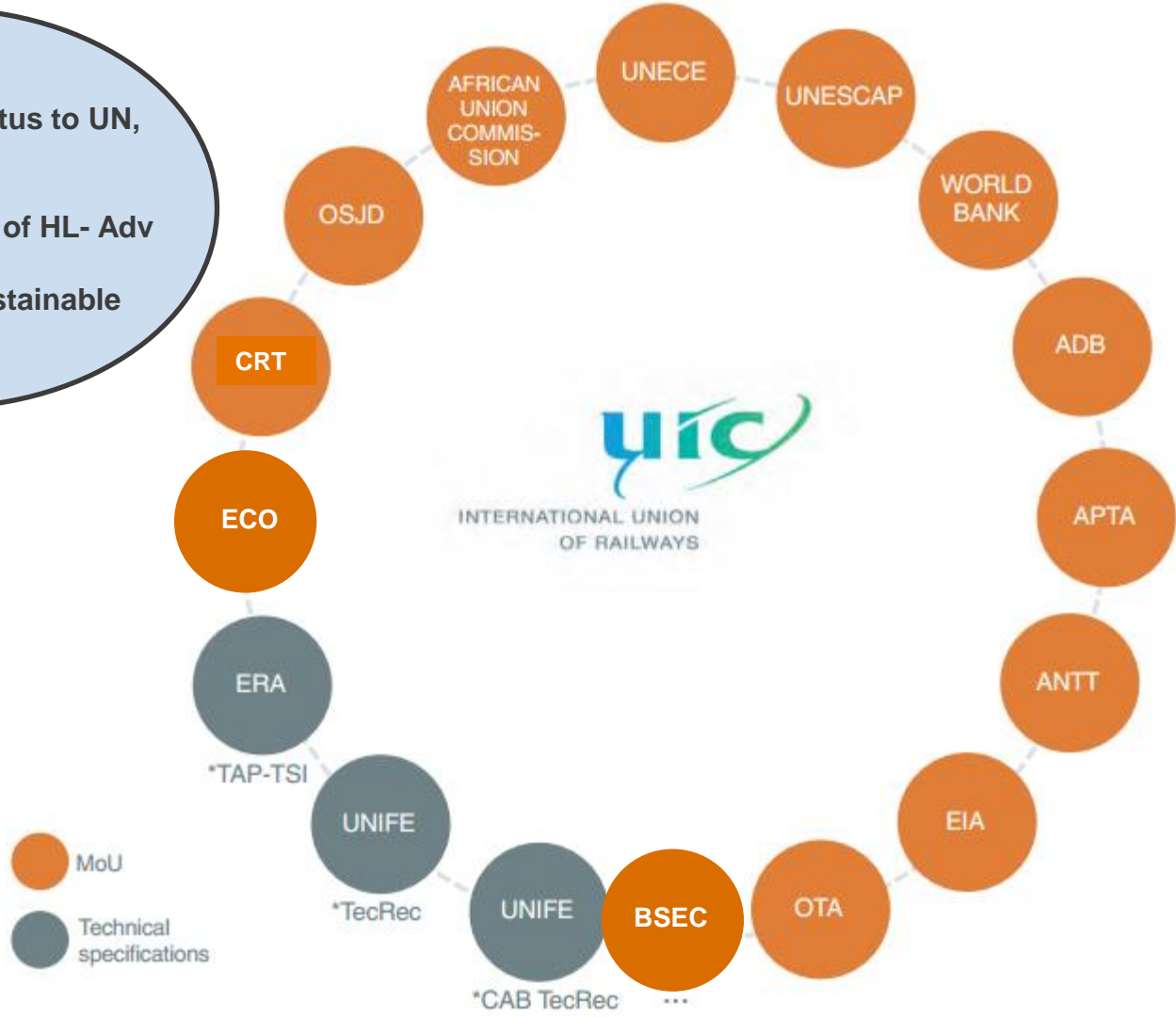
ACTIVE ASSOCIATE AFFILIATE



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)

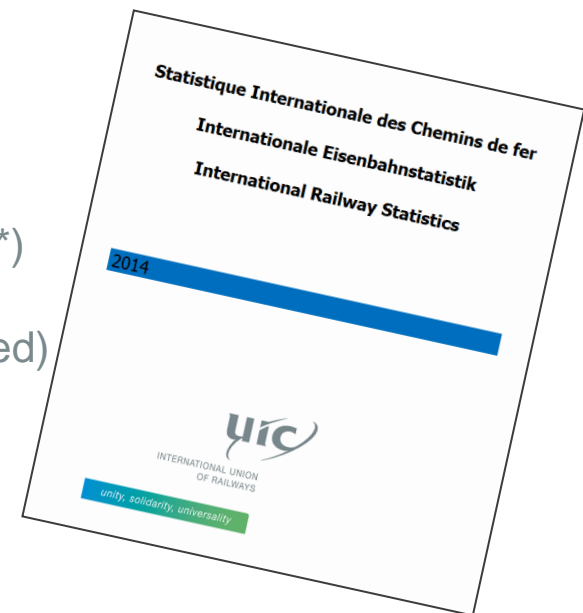
Also on-line data

- 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

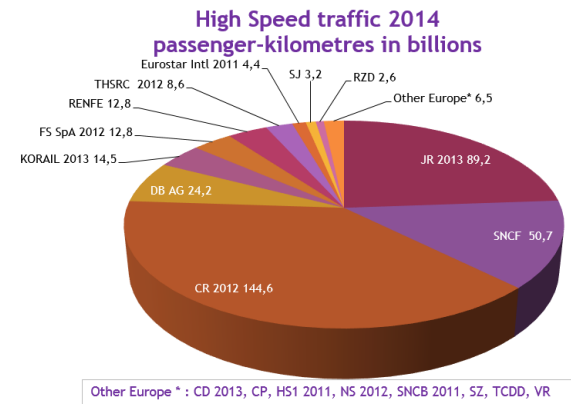


Synopsis

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 & 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	millions	Δ% 14/13
Europe	Europe				340 514	139 594	100 545	49 594	48 880	119 947	920 214	2 412	5 597	6 111 129	694 159	2 868 199					
EU/UE					211 462	89 013	114 249	22 344	38 122	97 366	368 884	1 069	3 426	1 167 861	391 394	2 81 854					
Austria	GKB ÖBB WB WLB Cargo	84	8.5	103	91	2 064	3 527	1 103	461	2 850	18 544	0.4	125	63 115	235	10 667	0.4	74	0.3	15 653	
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	37	5 439			
Bulgaria	BDZ CARGO BDZ PP BRC BULMARKET NRIC	111	7.3	67	-	-	-	207	198	81	767	4	5	4 321	25	1 702	-7	9	-2	1 778	
Croatia	HZ CARGO HZ Infra	57	4.3	76	2 604	253	970	187	79	35	529	2	15	2 273	22	927	8	10	-3	2 119	
Czech Rep.	CD SZDC	79	10.5	136	9 456	1 942	3 215	1496	1 059	4 363	25 965	23	141	43 551	170	6 952	0.4	57	-2	9 871	
Denmark	BDK DSB	43	5.6	132	2 131	927	620	53	312	1 993	8	2	54	-	163	2	5 765	1	-	-	
Estonia	EVR	45	1.3	29	792	97	132	75	-	-	2 931	2	6	10 323	4	237	26	35	-	4 807	
Finland	FTA VR	338	5.4	18	5 944	602	3 256	465	194	1 181	9 078	8	50	29 139	69	3 874	-4	37	2	9 597	
France	RFF SNCF	640	66.0	121	30 013	17 072	15 768	2 594	3 182	17 587	15 017	149	443	200 858	1 122	83 914	-1	63	-	32 012	
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	79 340	-1	221	-3	74 818
Greece	OSE TRAINOSE	132	11.0	86	2 238	524	494	173	128	718	3 758	2	-	-	15	1 413	3	538	-	-	
Hungary	FLOYD GySEV CARGO GySEV/RÖEE MAV	93	9.9	109	508	34	316	44	22	103	-	0.1	1	1 160	8	298	3	-	-31	433	
					7 384	1 188	2 696	919	240	2 396	-	36	91	23 092	111	5 491	-0.4	-	-	-	



Available mid year for n-1

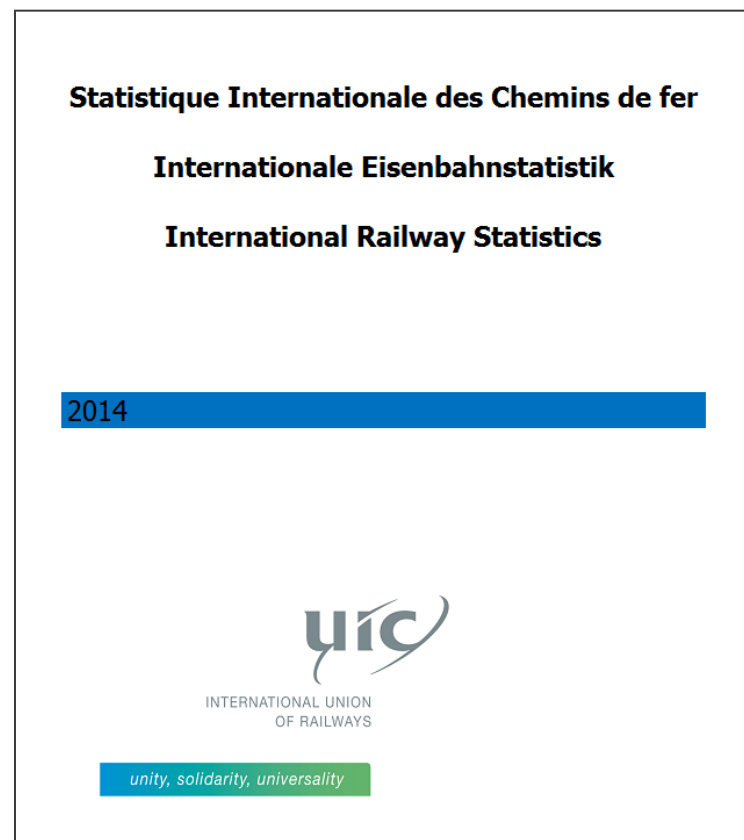
download it at <http://uic.org/statistics>

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%
WORLD estimates	2 506,1	2 686,6	2 711,9	2 765,4	2 883,4	2 866,6	2 865,3	3 070,2	2 954,3	-4%

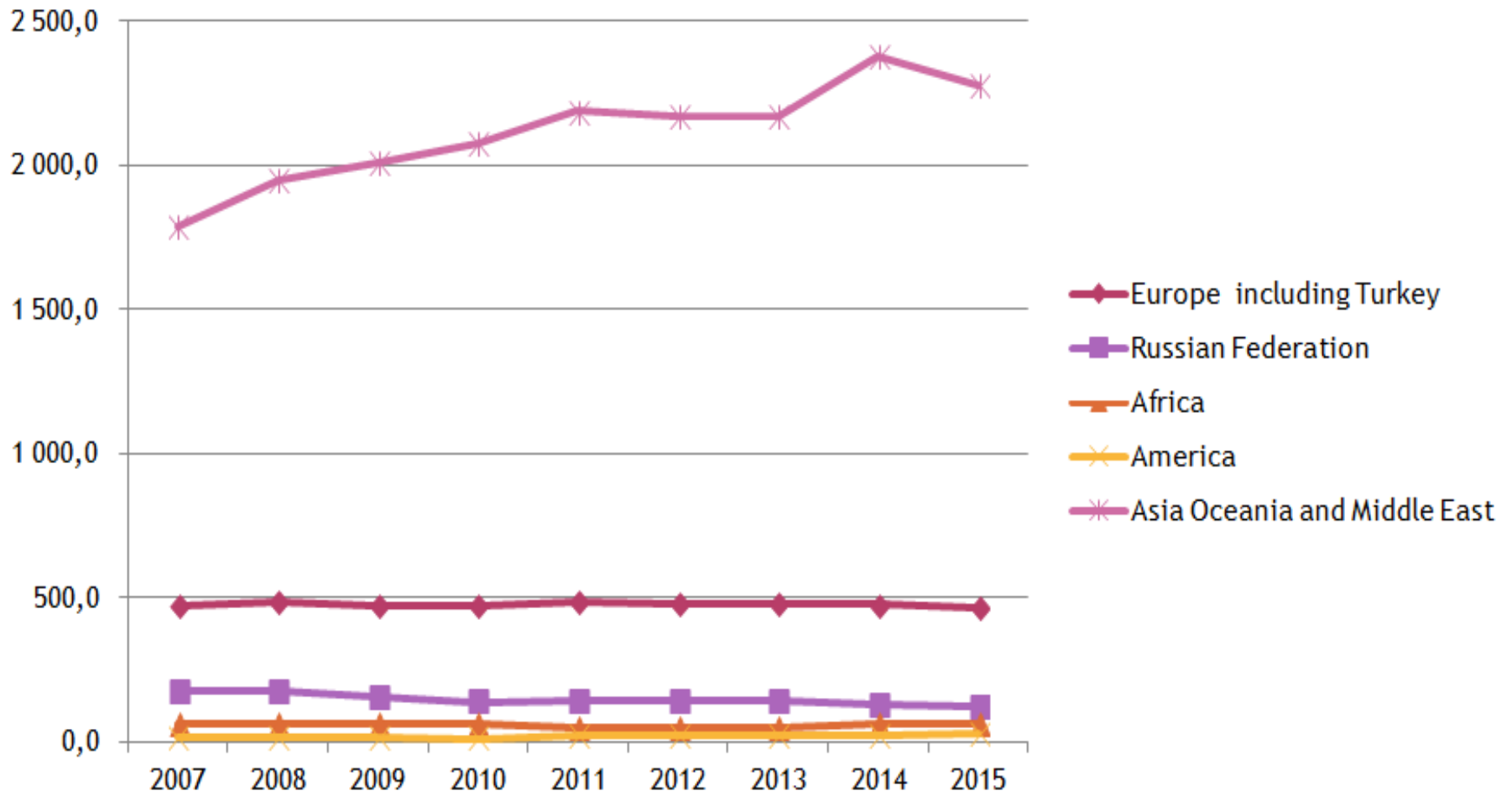
Tonne-kilometres (billions)

	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%
WORLD estimates	9 588,9	10 207,9	8 987,9	9 281,2	9 668,6	9 807,0	9 789,2	9 690,2	8 567,5	-13%

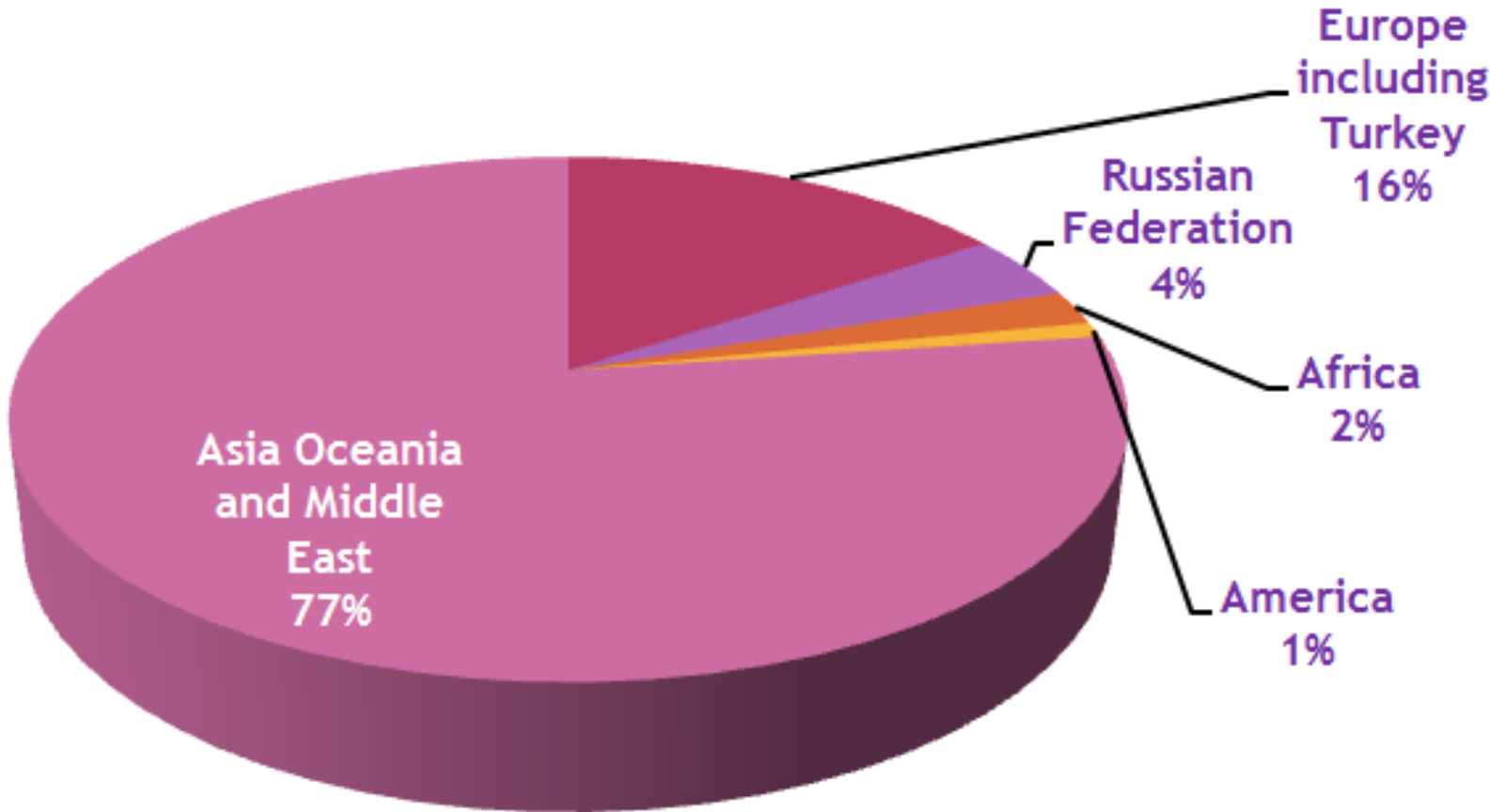
Length of lines (kilometres)

	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%
WORLD estimates	1 013 696	1 010 082	1 013 276	1 020 953	1 028 806	1 021 457	1 029 230	1 000 289	872 001	-14,7%

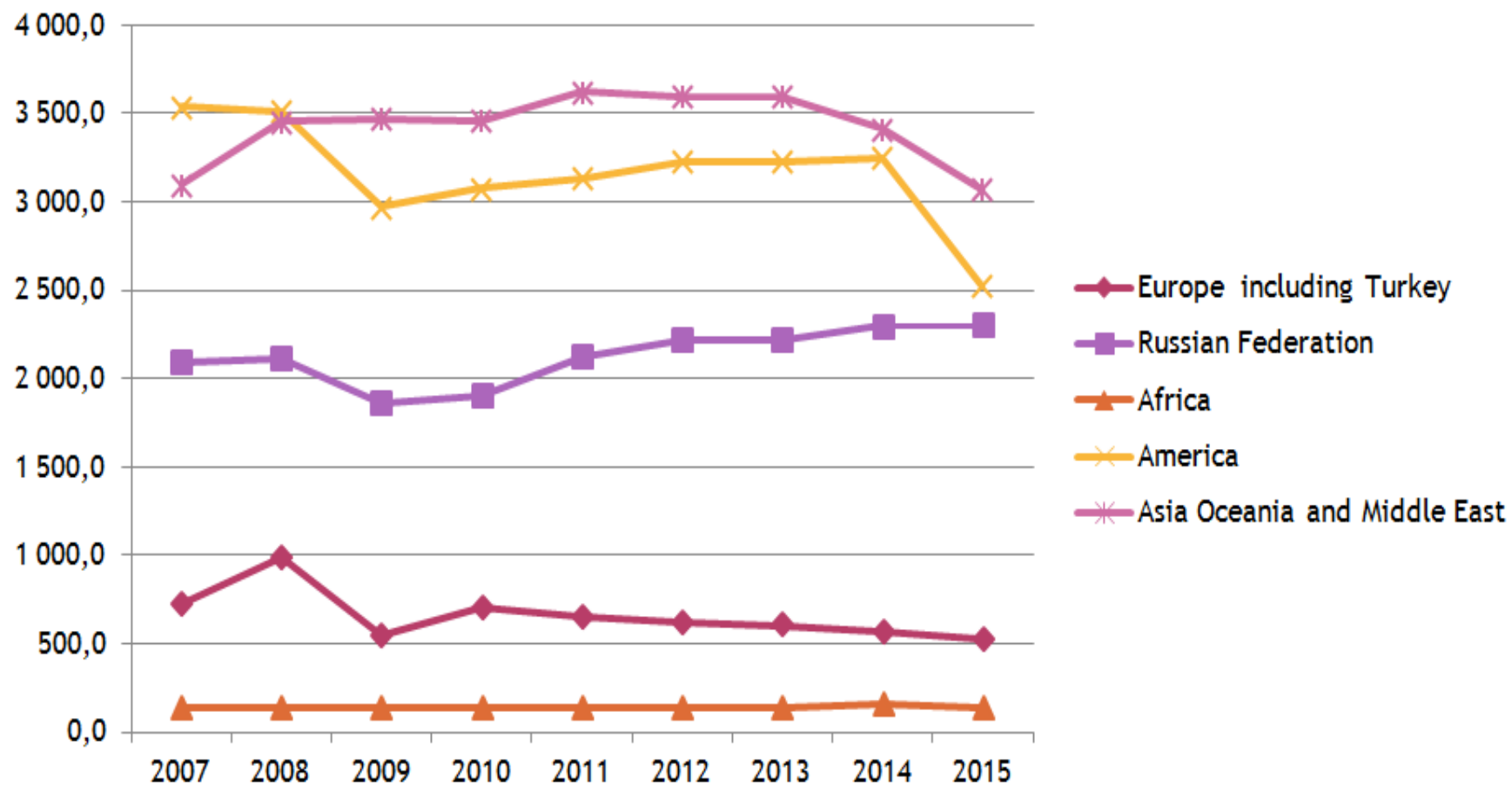
Passenger-kilometres (billions)



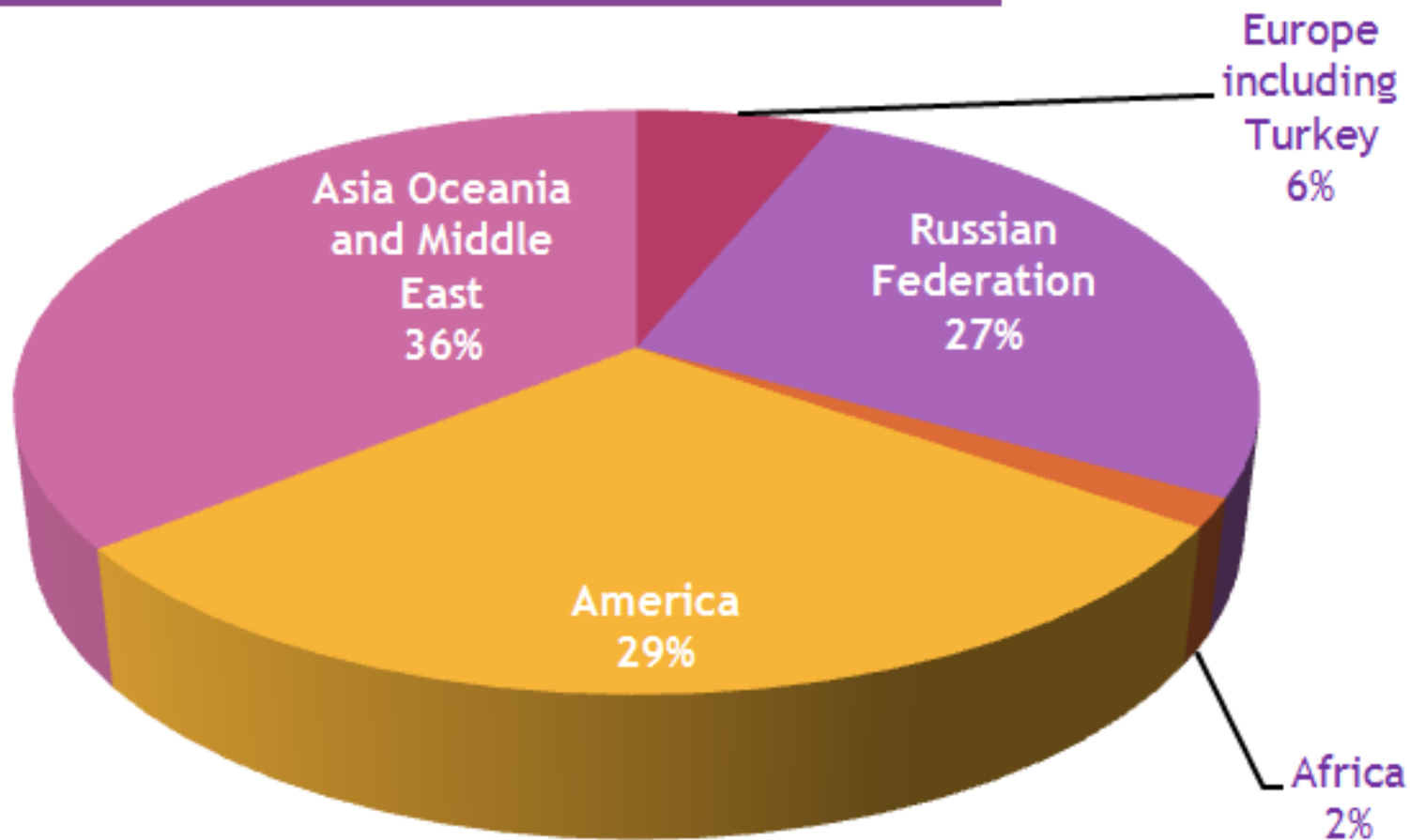
Passenger-kilometres Share in 2015



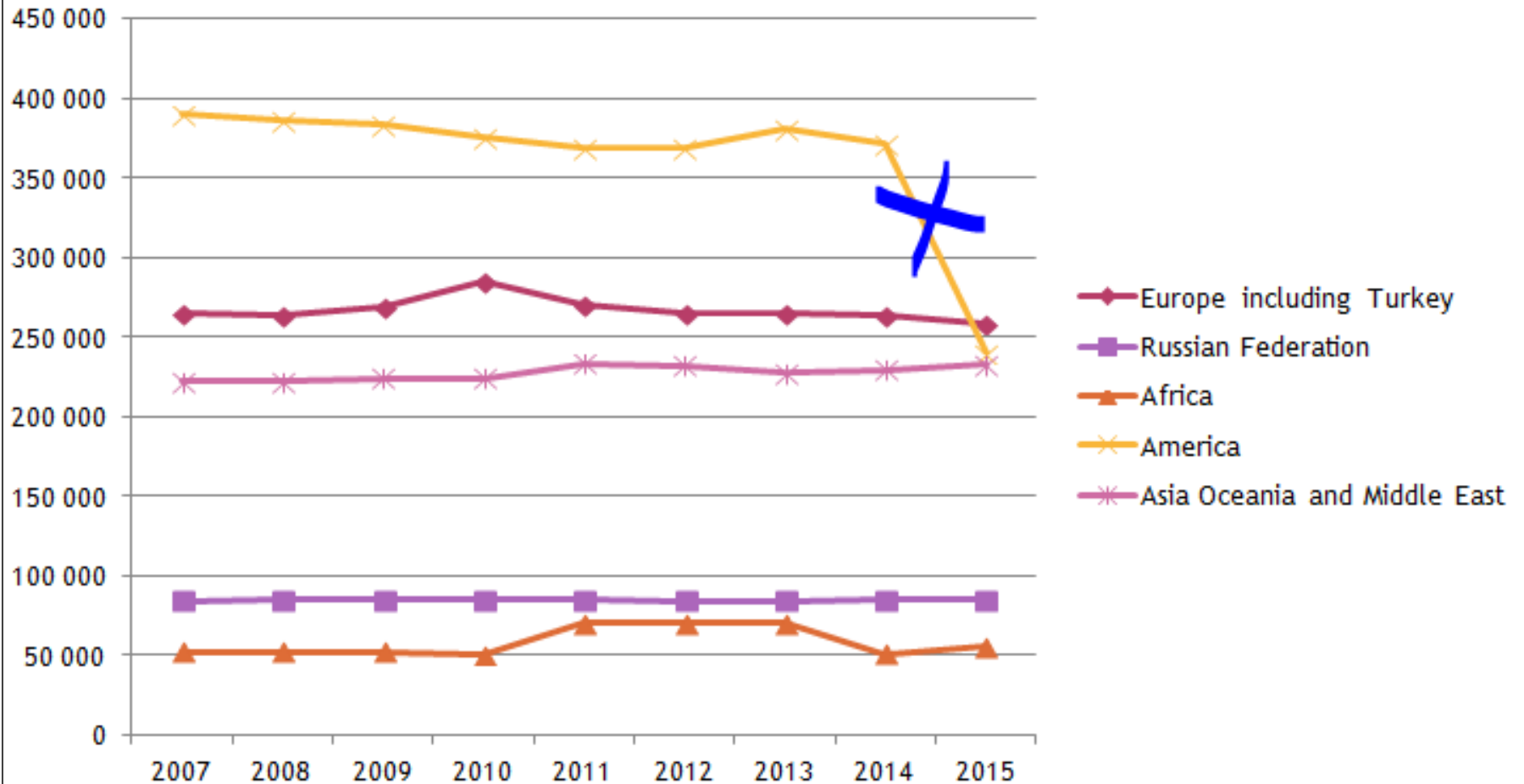
Tonne-kilometres (billions)



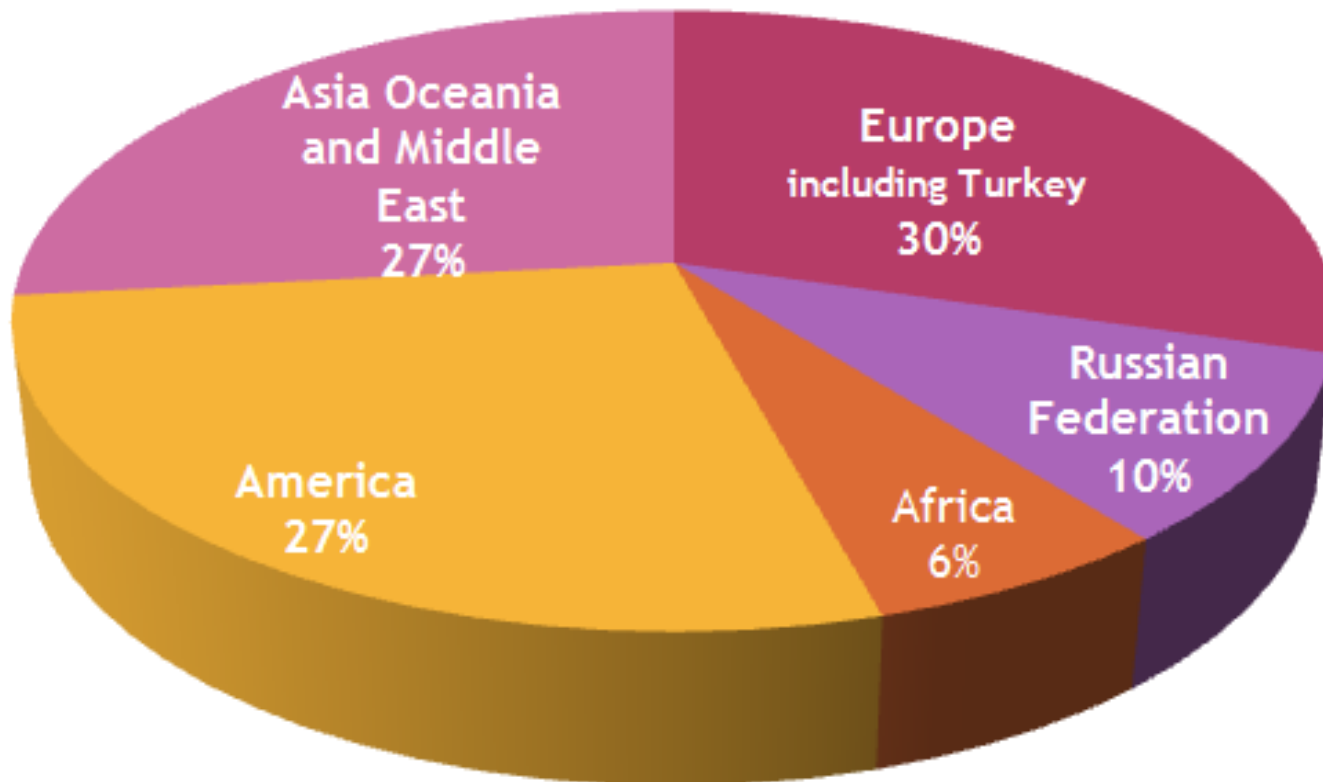
Tonne-kilometres Share in 2015



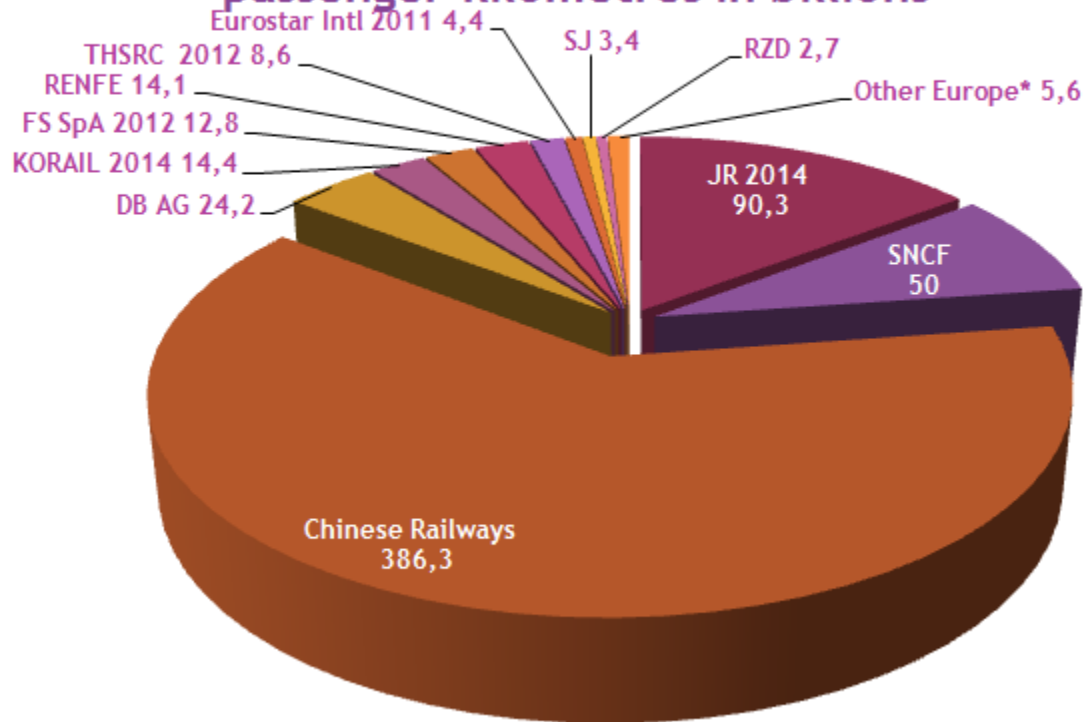
Length of lines (kilometres)



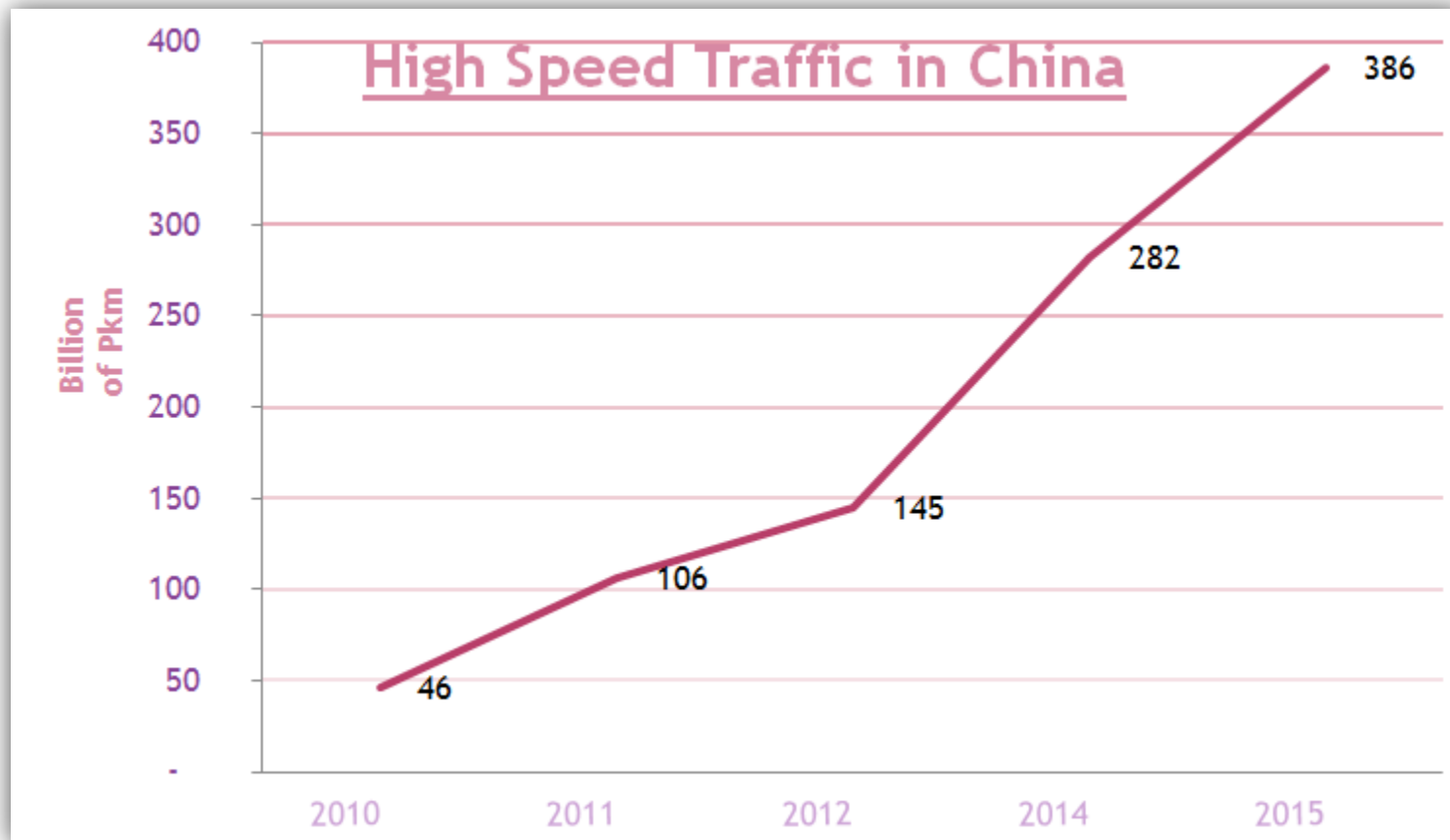
Length of lines Share in 2015



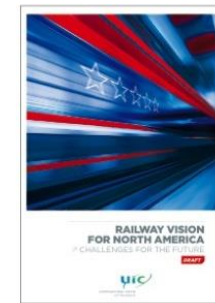
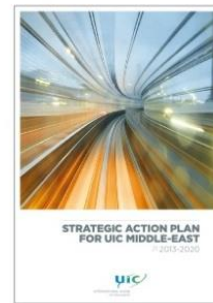
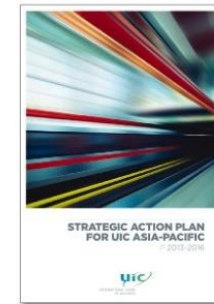
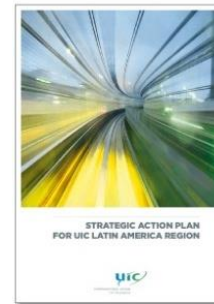
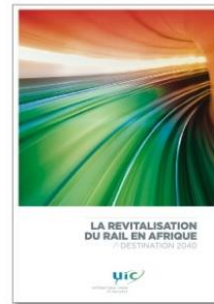
High Speed Traffic 2015 passenger-kilometres in billions



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

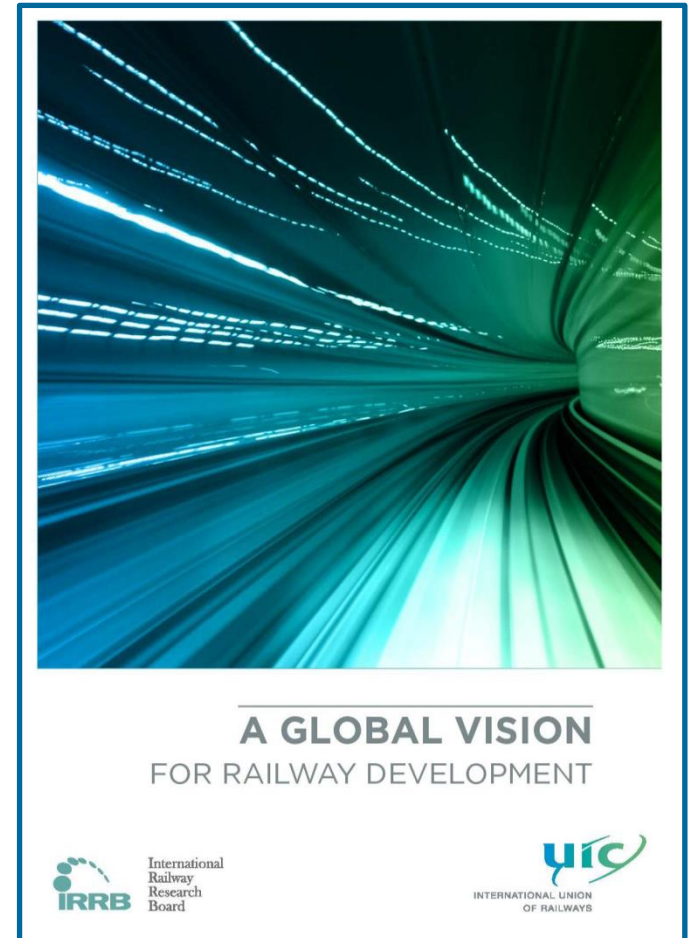


A strategic vision for the rail development in every region of the world



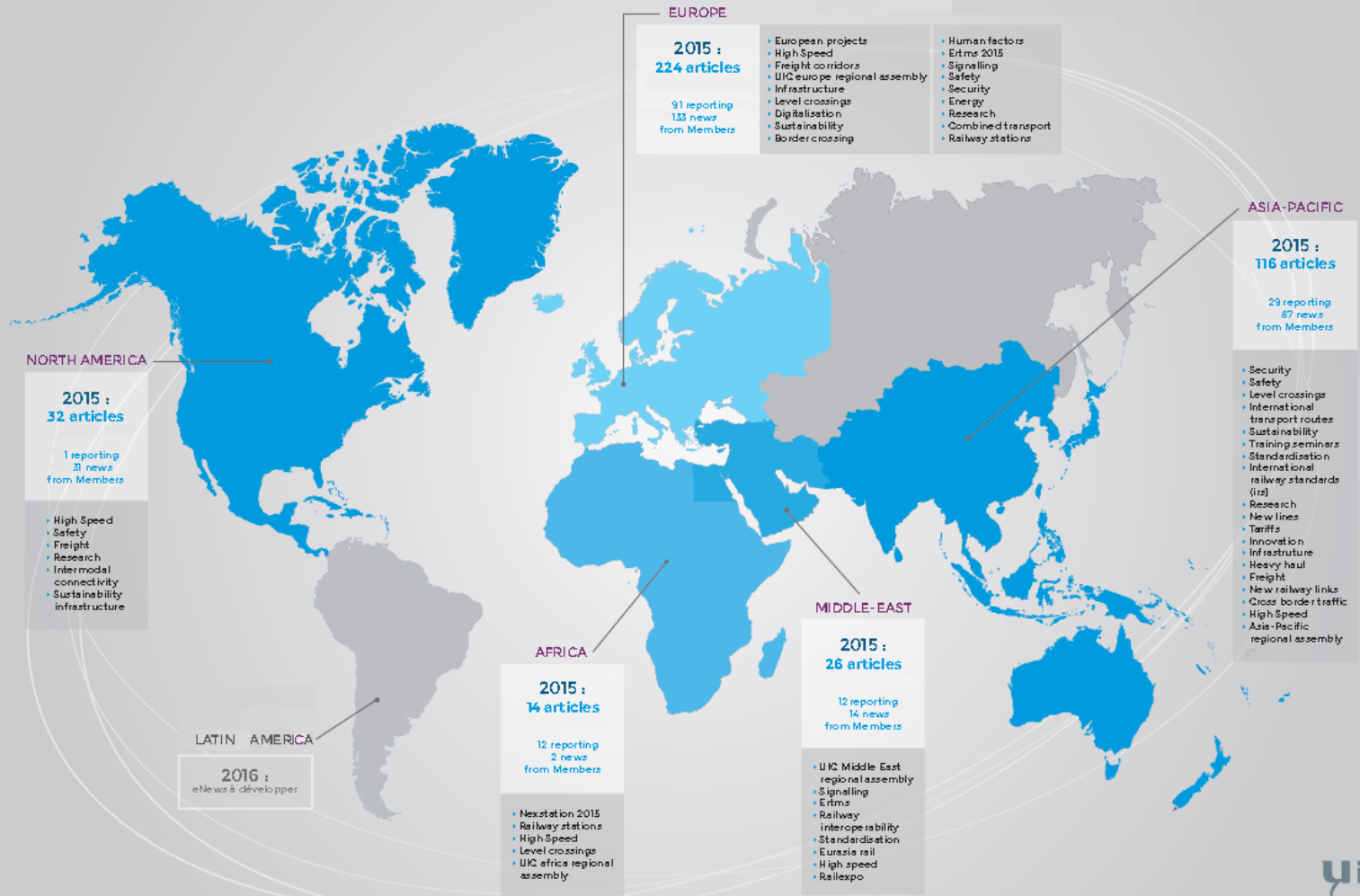
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Global Vision for railway development



http://www.uic.org/IMG/pdf/global_vision_for_railway_development.pdf

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 main 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 'E NEWS', 'PUBLICATIONS', 'LEAFLETS', 'VIDEOS', 'MEETINGS', and 'UIC MEMBERS'. The 'EVENTS' section displays four event cards: '1st TRAINING ON COMMUTER AND REGIONAL TRAIN SERVICES' (28-30 Sept, Rome), '9th APNRTC' (29 Sept-1 Oct, Seoul, Korea), 'INTERNATIONAL RAILWAY SAFETY COUNCIL' (2-7 Oct, Paris), and 'DIGITAL DAYS' (7-8 Oct, Paris UIC Headquarters). The 'CRITIS 2016' conference is also listed (10-12 Oct, Paris). The 'E NEWS ARTICLES' section includes 'USA: AMTRAK and partners announce design team for Chicago Union Station' and 'Germany: New product ideas and digital applications for the future of freight traffic'. The 'UIC PUBLICATIONS' section shows covers for 'UIC Daily Night Trains 2.0', 'FACTS & FIGURES', and 'Freight 2016'.

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- 6 - Traction (299)
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- 9 - Information, Technology, Miscellaneous (252)

Terminology (14)

Drawings (231)

Technical Documents (4970)

Statistics (16)

Proceedings (40)

Leaflets & IRS

3331 Publication(s) Sort by: Reference

Sub categories: 0 - Statutes and Regulations

Page: 1 2 3 4 5

Code	Title	Description	Price
STA 6/90 DE	MERKBLATT	Regeln für die Erstellung der Statistik der Internationalen Personenverkehrsströme	€24.00 excl. VAT
STA 6/90 EN	LEAFLET	Rules for compiling flow statistics for international passenger traffic	€24.00 excl. VAT
STA 6/90 FR	FICHE	Règles à suivre pour l'établissement d'une statistique par flux du trafic international voyageurs	€24.00 excl. VAT
STA 4/84 DE	AUFHEBUNG	EDV-mäßig erstellte Statistik des internationalen Güterverkehrs (STIMTRI) - EDV-mäßige Erstellung detaillierter...	€0.00 excl. VAT
STA 4/84 EN	CANCELLATION	Computerised international freight traffic statistics (STIMTRI) - Preparation of detailed statistics on international...	€0.00 excl. VAT
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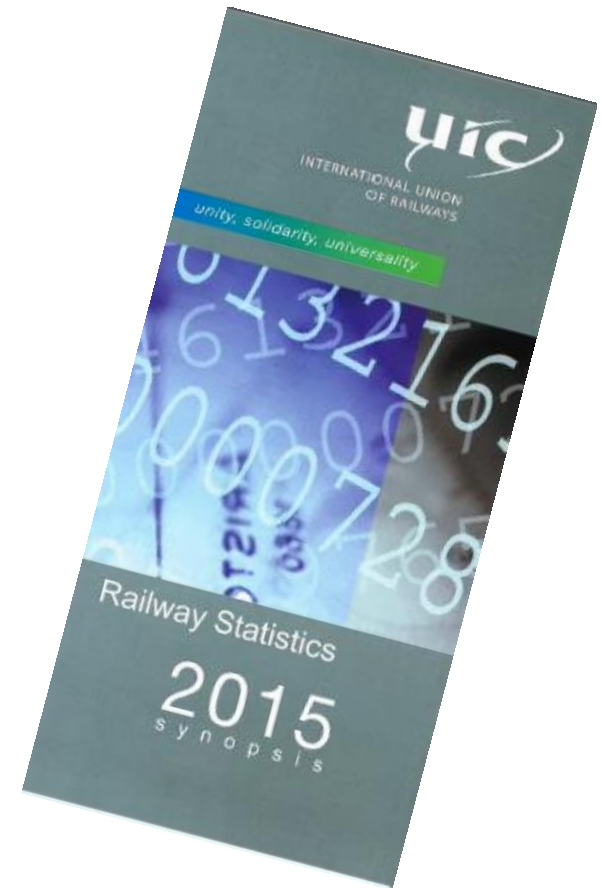
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■ ■ ■ Thank you for your kind attention

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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