



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Romanian railway situation in the European context

**Octavian Udriște**

Member of AGIR, AIFR and Honorary Chairman Club Feroviar



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## European rail network



Vienna 17-18 October 2013



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

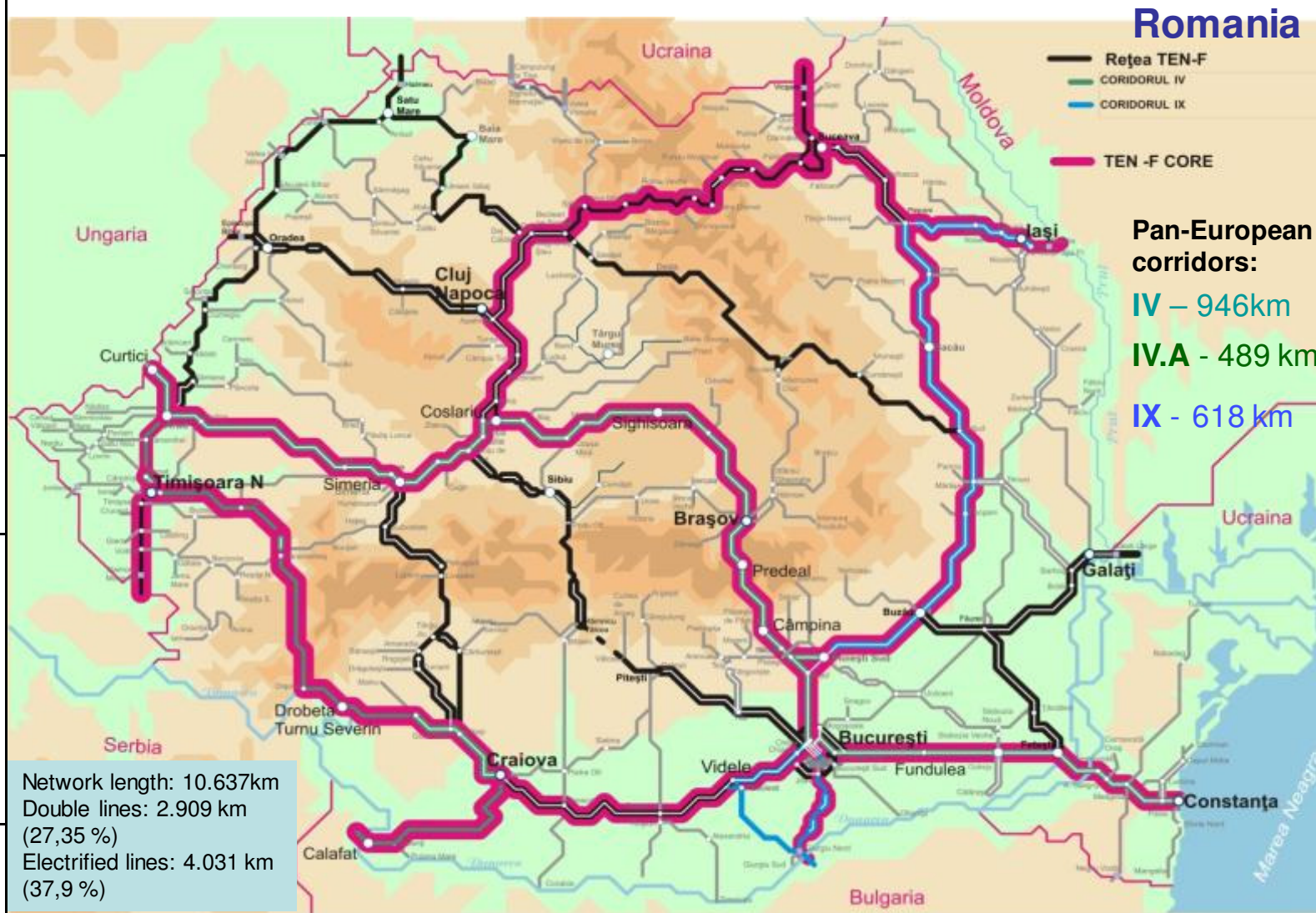


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## TEN-T & Pan-European Network



Vienna 17-18 October 2013



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Status of EU rail networks Top ten longest rail networks

Country		Rail in use km	1000 mio psg.km		1000 mio tons.km		Density km/1000sqkm 2005	
1	<b>Germany</b>	33.855	2	81,76	1	115,65	2	107
2	<b>France</b>	29.901	1	84,97	3	40,63	6	56
3	<b>Poland</b>	19.627	6	20,19	2	52,04	5	62,7
4	<b>Italy</b>	16.861	4	49,80	5	23,83	7	53,1/2002
5	<b>UK</b>	16.218	3	52,68	4	24,83	4	67,8/2004
6	<b>Spain</b>	15.041	5	23,97	9	10,48	9	25,4
7	<b>Sweden</b>	11.022	7	11,02	6	23,12	10	24,5
8	<b>Romania</b>	10.637	9	6,88	8	15,24	8	45,9
9	<b>Czech Republic</b>	9.486	10	6,80	7	15,44	1	121,9
10	<b>Hungary</b>	7.892	8	8,29	10	9,87	3	82,6



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

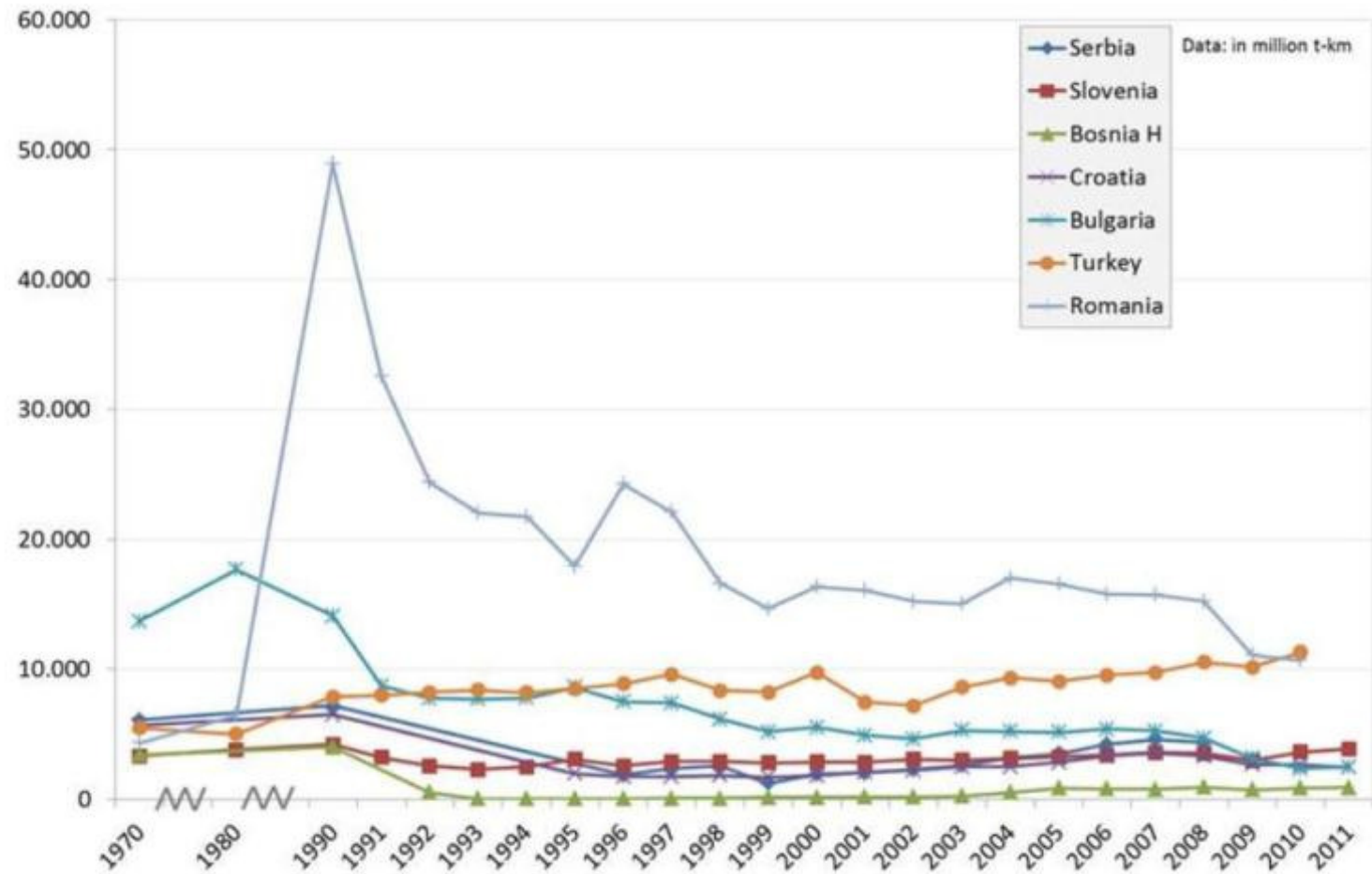


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Rail freight market development in South East Europe



Source: CER 8 October 2013



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

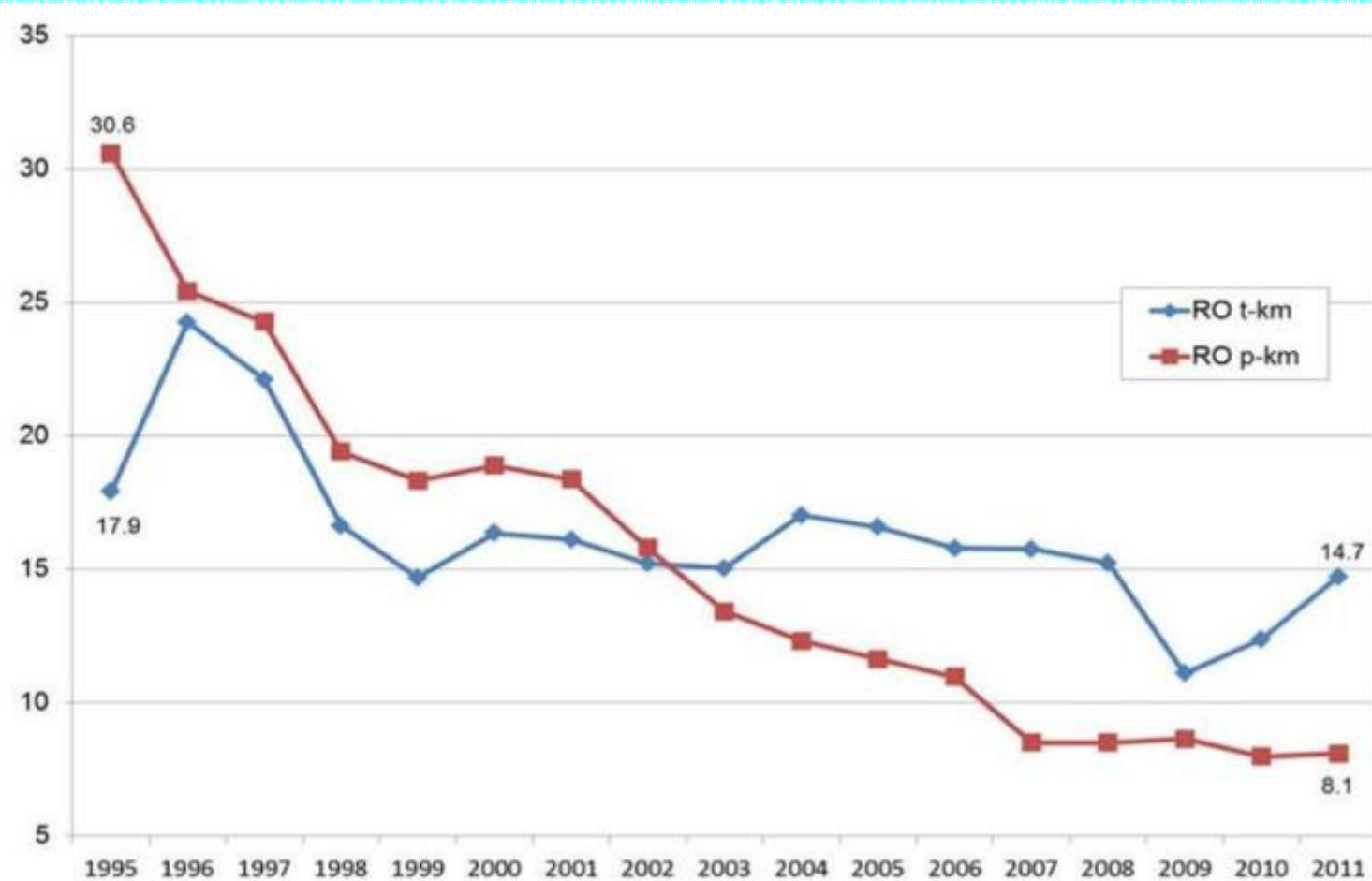


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Freight and passenger markets performances in Romania





General Association of Engineers – AGIR



The Academy of Technical Sciences

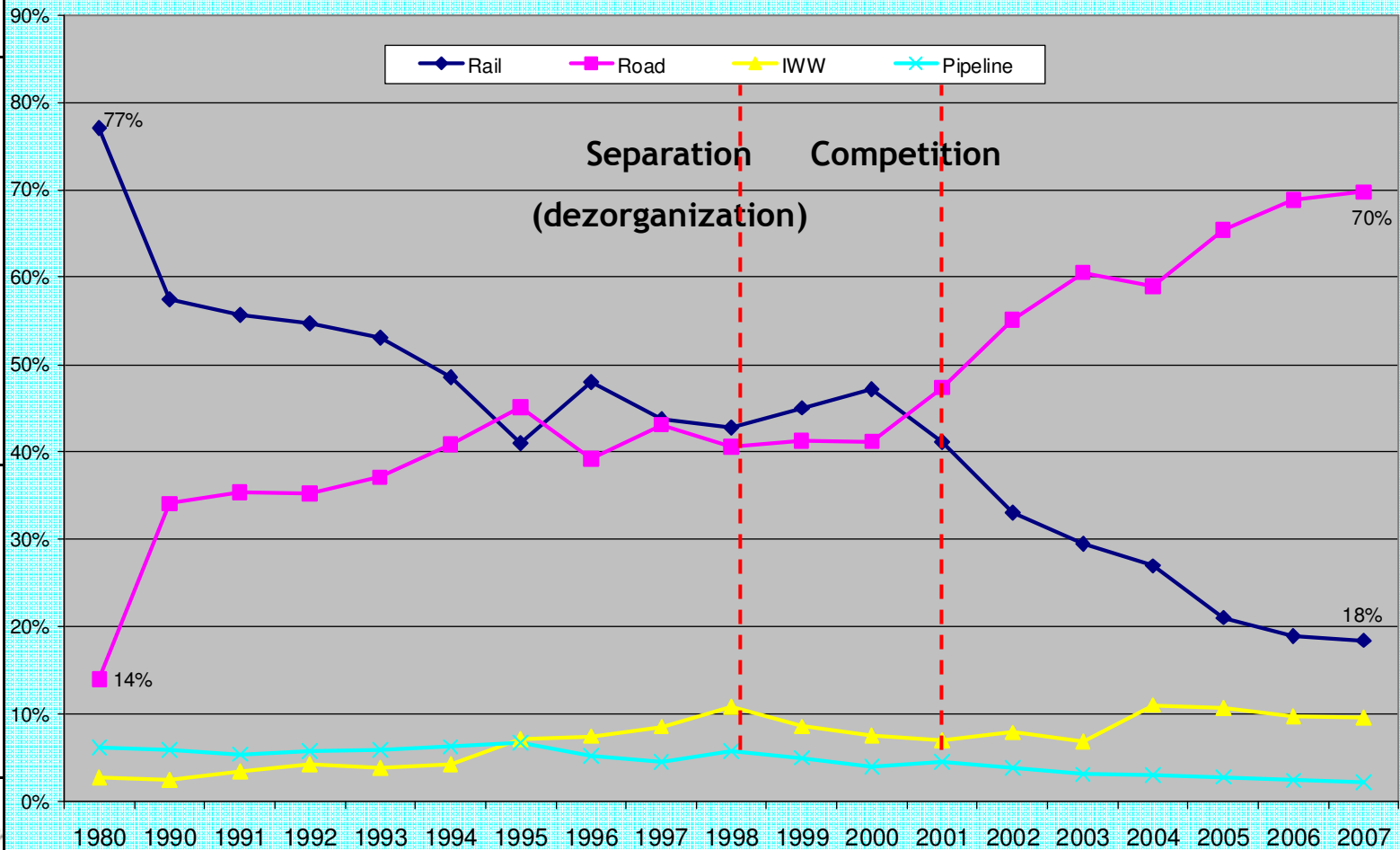


The Association of Railway Engineers in Romania - AIFR



# Alliance Pro Railway

## Freight transport market share development in Romania



Source: ETIF 2009



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

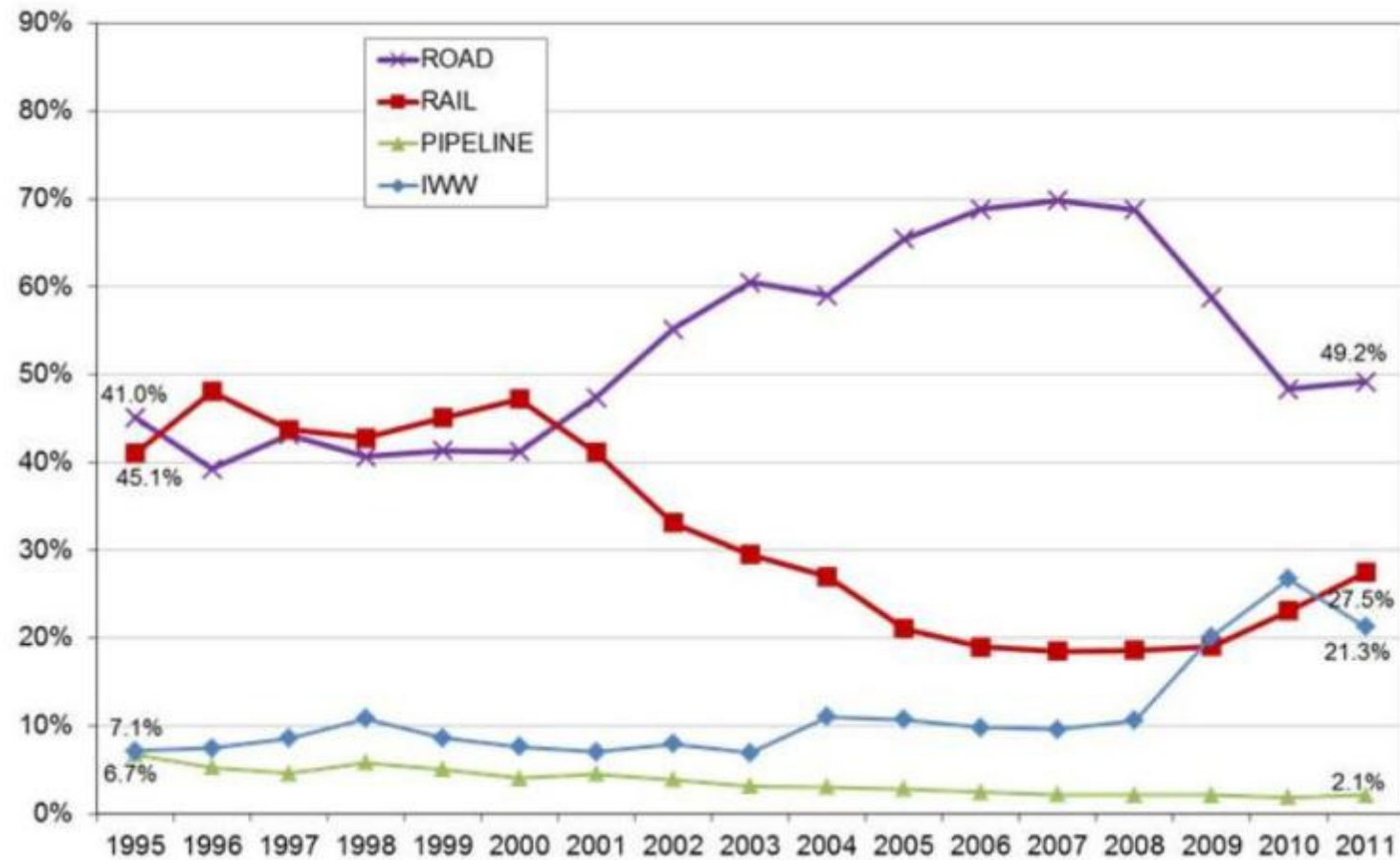


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Freight modal share in Romania



Source: CER 8 October 2013





General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

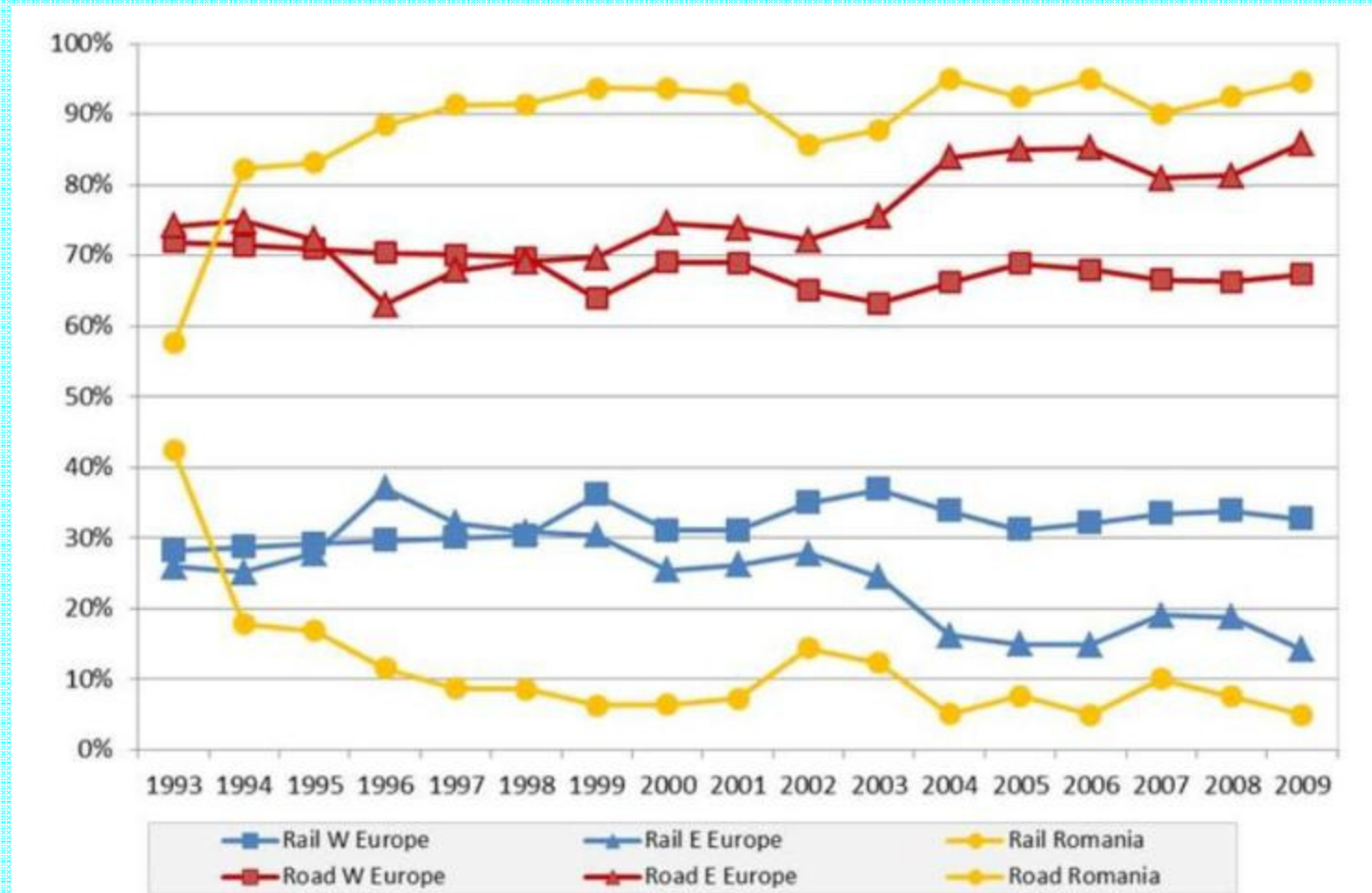


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Rail – road modal share of transport infrastructure investments (in %) in Western and Eastern Europe



Source: CER 8 October 2013



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences

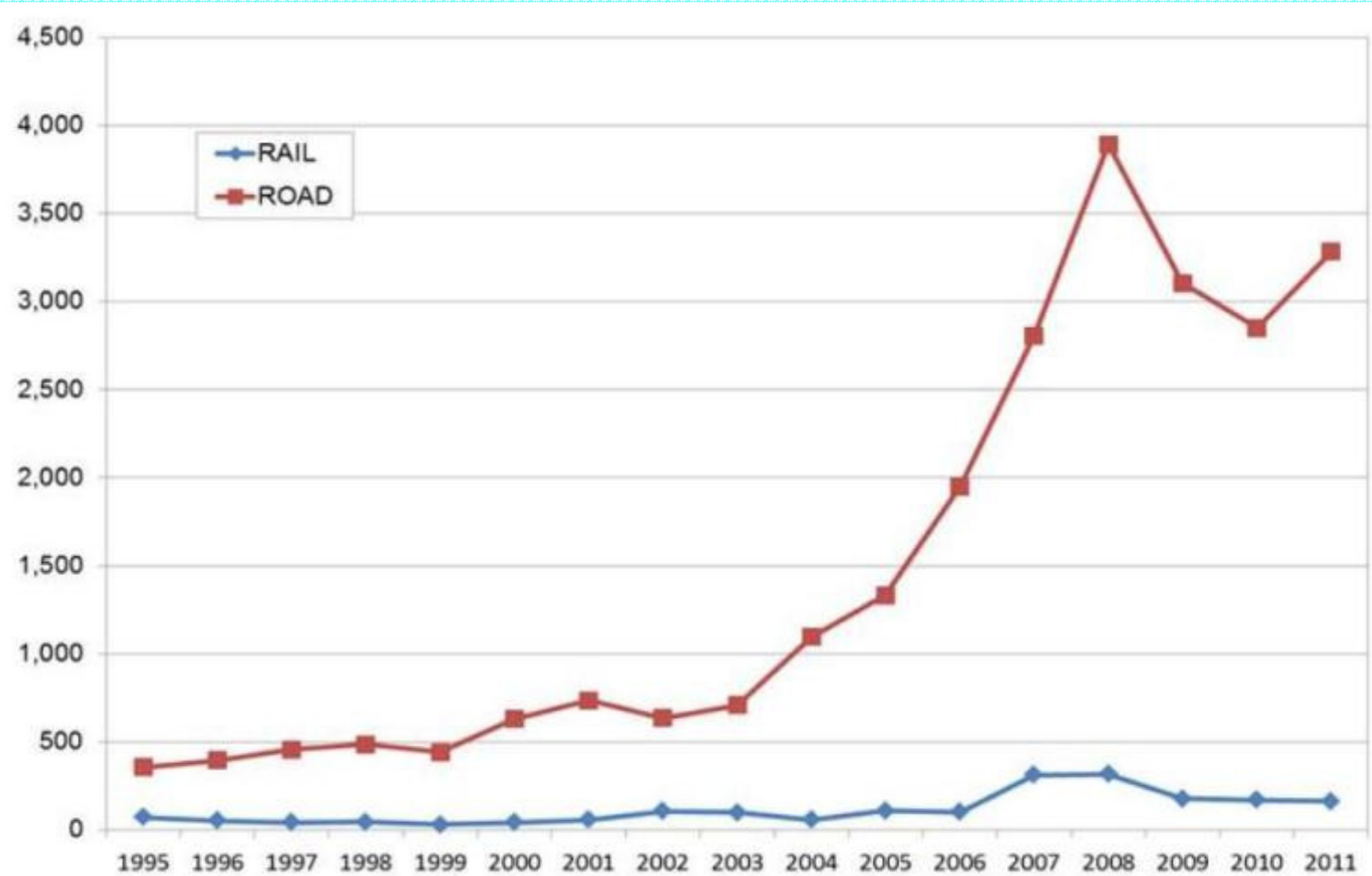


The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Rail and road infra investments in Romania (excluding maintenance) (euro MI)



Source: CER 8 October 2013



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Railway infrastructure in Romania

01.01.2013

Element m.u.	Total	Capital repairs due at 01.01.2013	
		Absolute	%
<b>Current direct lines (km)</b>	<b>13.680 *</b>	<b>8.260</b>	<b>60%</b>
<b>Bridges total (number)</b> <b>Of which:</b>	<b>4.739</b>	<b>3.115</b>	<b>66%</b>
<b>Small bridges (number)</b> <b>Of which:</b>	<b>12.950</b>	<b>11.925</b>	<b>85%</b>
With expired life cycle (number)		3.129	26%
With expired capital repairs cycle (number)		8.796	74%
<b>Contact electric lines (km)</b>	<b>10.407</b>	<b>8508</b>	<b>82%</b>

\* Total simple track

Vienna 17-18 October 2013

Source: CFR SA



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Railway infrastructure in Romania Evolution

Year 20:	01	02	03	04	05	06	07	08	09	10	11	12
Nr of speed restrictions	245	186	238	224	359	506	373	411	574	387	446	481
Length of restrictions	602	624	575	644	737	964	1019	1103	1408	999	843	1327

Source: CFR S.A.

Year	1989	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
Number of modernized track km	683	259	197	98	96	59	49	36	42	8	3	0	0	21	32	13

### Lines closed:

-Bucuresti-Giurgiu (starting 2005-at Grădiştea bridge) - Pan-European corridor IX



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Comparative state spending in the rail transport sector in 2006

2006 data	State spending per transport units	State Spending per track.km	Growth of traffic units (2006 vs 2005)	State Spending	Traffic Units	Track length	Market Share of New Entrants
Units	in €	(in €)	(in %) based on p.km+t.km	(in million €)	(in billion p.km+ t.km)	(in km)	(in %)
Luxemburg	0.53 €	636.511 €	11%	394	0,7	619	0%
Ireland	0.29 €	258.355 €	0%	603	2,1	2334	0%
Belgium	0.18 €	531.729 €	5%	3226	18,2	6067	3%
Netherlands	0.13 €	412.306 €	1%	2687	20,0	6517	18%
Denmark	0.12 €	285.149 €	1%	937	8,0	3266	No data
Greece	0.11 €	91.758 €	1%	275	2,5	2997	0%
United Kingdom	0.09 €	208.227 €	5%	6601	70,2	31701	5%
France	0.08 €	191.215 €	2%	10100	119,7	52820	No data
Italy	0.07 €	221.016 €	2%	5126	70,6	23192.9	12%
Sweden	0.04 €	104.846 €	3%	1415	31,6	13496	33%
Slovenia	0.04 €	84.815 €	4%	186	4,2	2193	0%
Germany	0.04 €	124.589 €	8%	8001	186,0	64219.1	17%
Finland	0.03 €	52.888 €	11%	467	14,7	8830	0%
Hungary	0.03 €	70.511 €	5%	560	19,8	7942	9%
Austria	0.02 €	64.513 €	8%	637	30,3	9874	10%
Slovakia	0.02 €	32.474 €	5%	223	12,2	6867	No data
Spain	0.02 €	29.961 €	1%	563	33,7	18761	5%
Czech Republic	0.01 €	16.823 €	5%	270	22,7	16049	5%
Portugal	0.01 €	20.482 €	1%	74	6,3	3613	0%
Bulgaria	0.01 €	8.453 €	4%	61	7,8	7216	3%
Poland	0.00 €	8.266 €	6%	310	71,7	37504	17%
Latvia	0.00 €	9.022 €	-14%	31	17,8	3436	11%
Estonia	0.00 €	7.581 €	-2%	12	10,7	1583	31%
Lithuania	0.00 €	853 €	3%	3	13,3	8540	0%
Romania	0.00 €	147 €	-3%	3	23,9	20384	27%

Source: CER

Vienna 17-18 October 2013



General Association of Engineers –  
**AGIR**



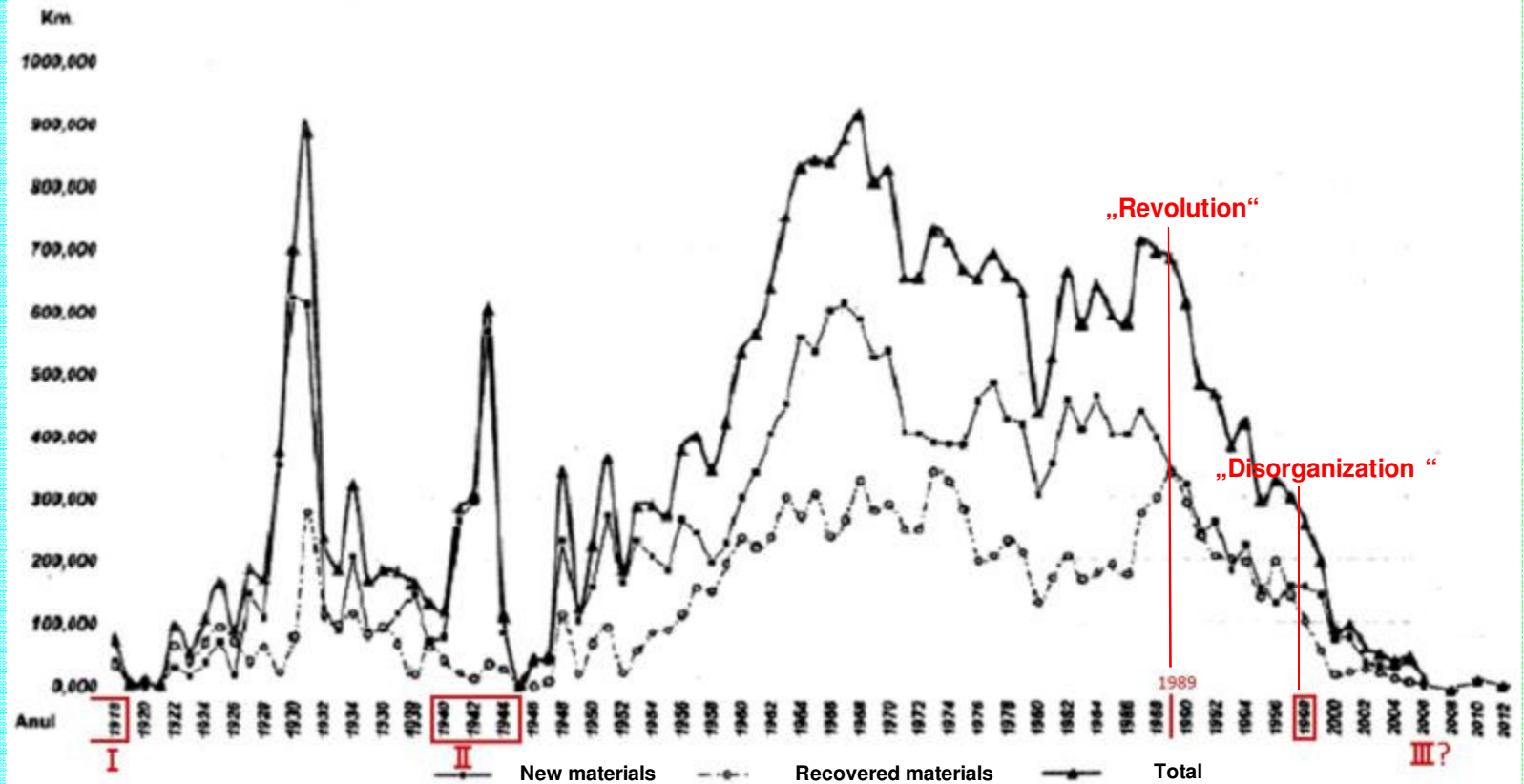
The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway



## The evolution of built and upgraded network 1918 - 2012



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

## Let's seek together the answers ...

- What can be done to revitalize and increase the attractiveness of the Romanian Railways?  
(Wie kann man die Römänische Eisenbahn revitalisieren und ihre Atraktivität zu erhöhen?)
- Is there a political will to implement EU requirements in order to realize a competitive European railway network?  
(Gibt es in Rumänien ein Politisches Willen die EU Bedürfnisse zu umsetzen um ein competitives Europäisches Eisenbahnnetz zu realisieren?)
- Is there a political will for application of the White Book directives?  
(Gibt es das Politisches Willen die Weiss Buch Richtlinien zu umsetzen?)
- On who depends and what should be done to ensure an impartial/fair competition between railway and road transport?  
(Vom wem hängt es und was ist zu tun um ein fähres wettbewerb zwischen Bahn und Straßen-Verkehr zu gewerleisten?)

... and recovery measures



General Association  
of Engineers –  
**AGIR**



The Academy of  
Technical Sciences



The Association of  
Railway Engineers  
in Romania - **AIFR**



# Alliance Pro Railway

**Thank you for your attention!**  
**Danke schön für Aufmerksamkeit!**

**Octavian Udriște**

Member of AGIR, AIFR and Honorary Chairman Club Feroviar

[octavian.udriste@clubferoviar.ro](mailto:octavian.udriste@clubferoviar.ro)

Mobile phone: 0040 724 459 655