



International Association of Public Transport
Union Internationale des Transports Publics
Internationaler Verband für öffentliches Verkehrswesen
Unión Internacional de Transporte Público

Trolleybus Working Group

Dynamical statistics of trolleybus systems. From the beginning up to date

15th TWG
Meeting

Yaroslavl,
November 2011

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Better mobility for people worldwide

TWG Project

TWG Activity Vision

Dynamical statistic of trolleybus systems

***Statistical data from the beginning
till nowadays.***

***Show the development, stagnation,
decadence and renaissance of
trolleybus.***



Moving factors analysis.

With TrolleyMotion

14th TWG, Sofia 2011



PURPOSE

Statistical data from the beginning till nowadays

Show the development, stagnation, decadence and renaissance of trolleybus

Moving factors analysis

Momentous events

STRUCTURE

By regions

By countries

TWG Activity Vision

***World
Trolleybus fleet***

Region	Trolleybuses quantity
Eastern Europe	4 482
Western Europe	1 893
Eurasia, incl.Russia	26 666
North America	1 926
South America	828
Africa	0
Australia-Indonesia	60
Asia	4 810
TOTAL	40 665

By cities

By years

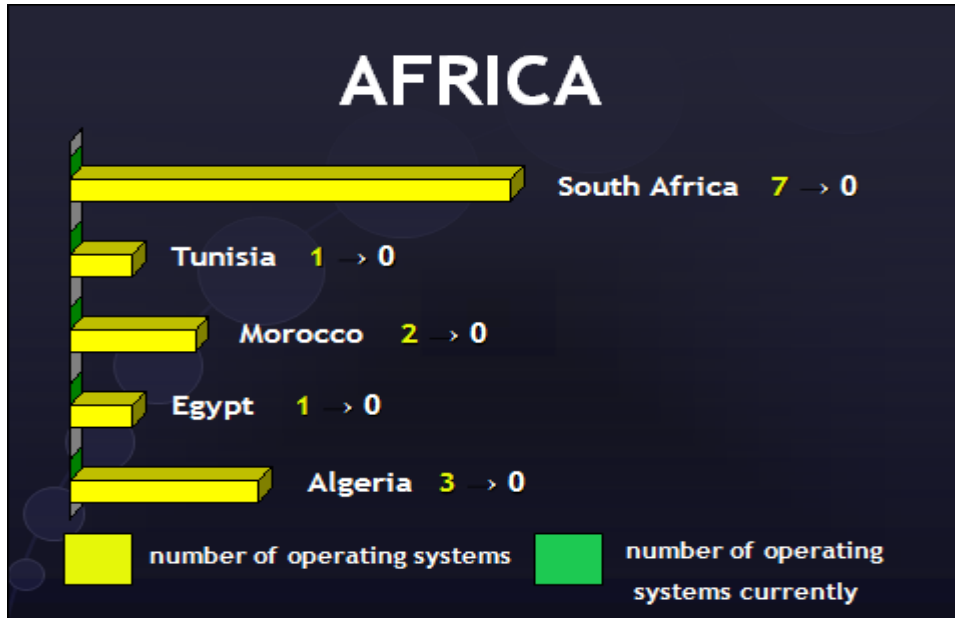
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STRUCTURE

By regions

By countries



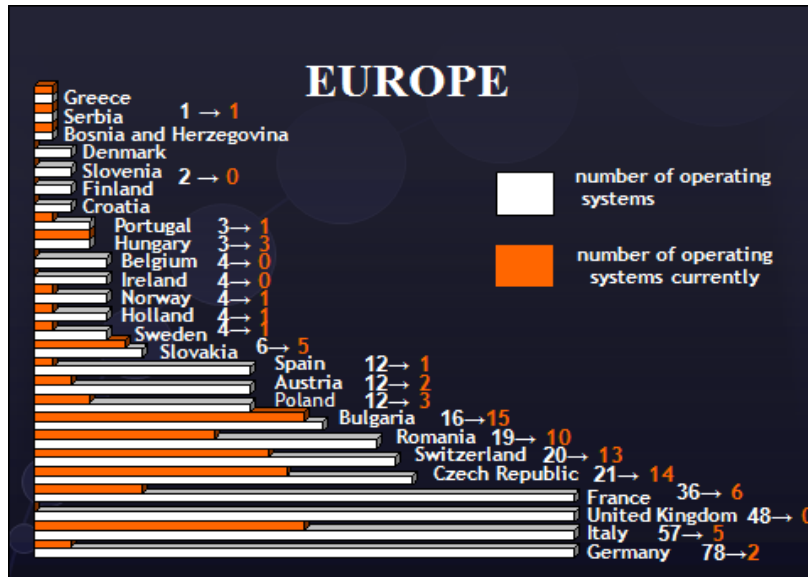
By cities

By years

STRUCTURE

By regions

By countries



By cities

By years

STRUCTURE

By regions
By countries

EUROPE	1910	1920	1930	1940	1950	1960	1970	1980	1990
COUNTRY	NUMBER OF CITIES								
USSR			7	26	52	113	167	183	
Austria	5	1	1	1	3	7	5	3	4
Belgium	5		2	3	3	3	2		1
Bulgaria					1	2	2	2	13
Bosnia and Herzegovina									1
United Kingdom	9	23	31	31	24	3			
Wales	1	1	2	3	1				
Scotland	2			1	1				
Northern Ireland		3	1	1	1				
Hungary			1	1	1	1	2	3	
Germany	3	3	10	55	57	20	6	6	
Greece				1	1	1	1	1	1
Holland			1	1	2	2	1	1	1
Denmark			1	2	2	1	1		
Italy	6	6	4	21	31	40	31	16	11
Spain				6	11	9	1		
Norway		1	1	2	4	4	1	1	1
Poland			1	2	6	6		1	5
Portugal				1	2			2	2
Romania				1	2	4		5	11
Serbia					1	1		1	1
Slovakia	2				1	1		2	3
Slovenia	1					1			
Finland					2	2		1	
France	2	1	6	9	23	22		3	7
Croatia					1	2			
Czech Republic	2				10	15		12	12
Switzerland		21	1	7	14	17		17	15
Sweden				2	2	2			



By cities
By years

STRUCTURE

Momentous events



EUROPE	1910	1920	1930	1920	1950	1960	1970	1980	1990
COUNTRY	NUMBER OF CITIES								
USSR				7	28	52	113	167	183
Austria	5	1	1	1	8	7	5	3	4
Belgium	5		2	3	3	3	2		1
Bulgaria					1	2	2	2	13
Bosnia and Herzegovina									1
United Kingdom		9	23	31	31	24	3		
Wales		1	1	2	3	1			
Scotland		2			1	1			
Northern Ireland			3	1	1	1			
Hungary				1	1	1	1	2	3
Germany		3	3	10	55	57	20	6	6
Greece					1	1	1	1	1
Holland			1	1	2	2	1	1	1
Denmark			1	2	2	1	1		
Italy	6	6	4	21	31	40	31	16	11
Spain					6	11	9	1	
Norway		1	1	2	4	4	1	?	?
Poland			1	2	6	6		1	5
Portugal					1	2		2	2
Romania				1	2	4		5	11
Serbia					1	1		1	1
Slovakia	2				1	1		2	3
Slovenia	1					1			
Finland					2	2		1	
France	2	1	6	9	23	22		3	7
Croatia					1	2			
Czech Republic	2			?	10	15		12	12
Switzerland		21	1	7	14	17		17	15
Sweden				2	2	2			



EUROPE	2000	2010
COUNTRY	NUMBER OF CITIES	
Russia	88	84
Belarus	7	7
Latvia	1	1
Lithuania	2	2
Estonia	1	1
Ukraine	46	46
Abkhazia	1	1
Azerbaijan	5	5
Armenia	2	2
Georgia	10	10
Kazakhstan	8	8
Kyrgyzstan	3	3
Moldova	4	4
Uzbekistan	10	4
Tajikistan	2	2
Turkmenistan	1	1
Austria	4	4
Belgium	1	
Bulgaria	13	15
Bosnia and Herzegovina	1	1
Hungary	3	3
Germany	6	3
Greece	1	1
Holland	1	1
Italy	11	
Norway	1	1
Poland	3	3
Portugal	2	
Romania	11 18?	10
Serbia	1	1
Slovakia	3 5?	5
France	7	
Czech Republic	12 14?	14
Switzerland	15	
Sweden		1

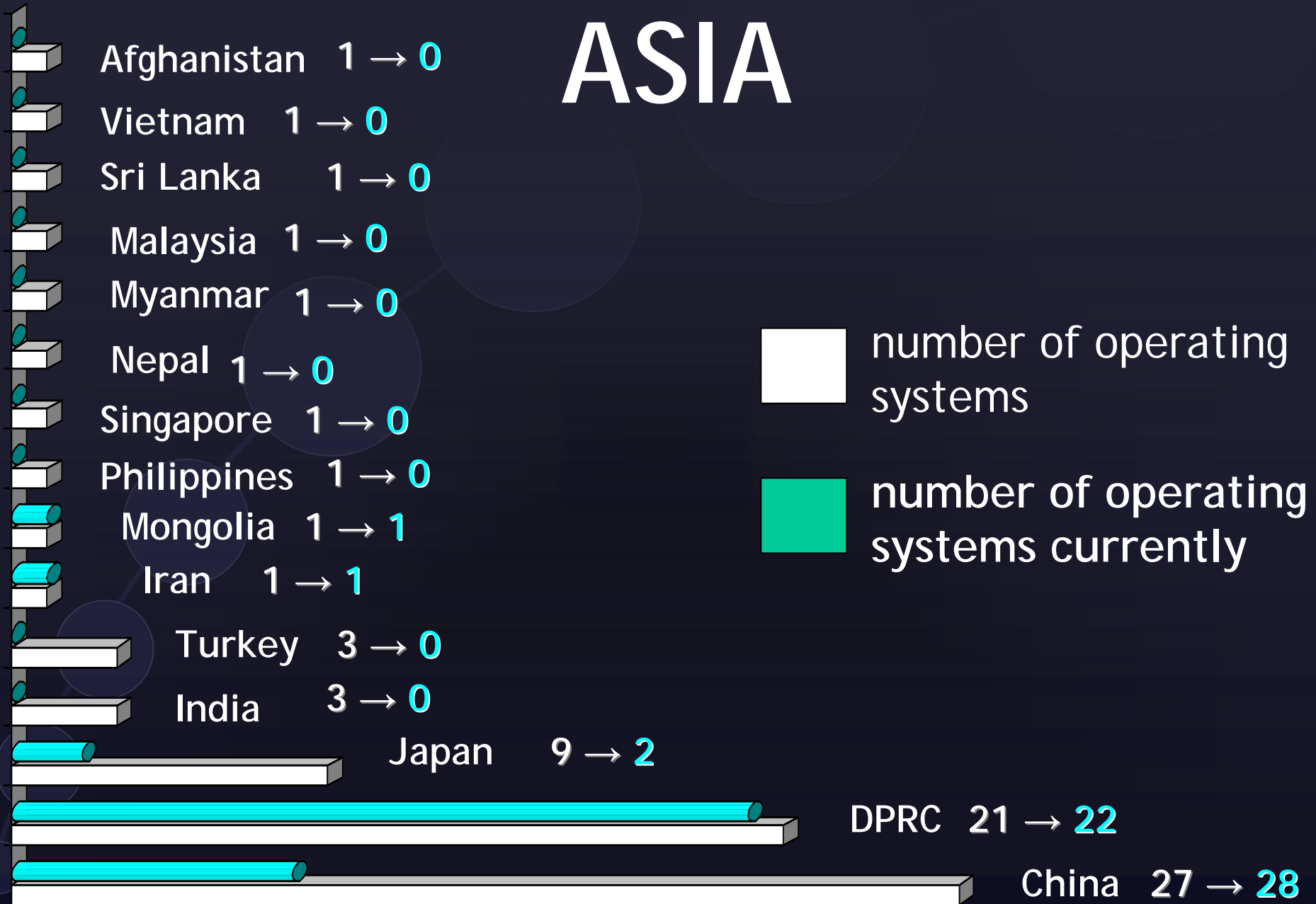


ASIA	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010
COUNTRY	NUMBER OF CITIES									
India			1	1	1	1	1			
Afghanistan							1	1	1	
China	1	1	1	1	19	19	25	27	22	11
Nepal							1	1	1	
DPRK						2	5	17	17	21
Malaysia		1	1	1	1					
Singapore		1	1	1	1					
Philippines		1	1							
Turkey				1	2	3	3	1	1	
Iran									1	1
Mongolia									1	1
Japan		1	1	2	5	3	1	1	1	2
Sri Lanka					1					
AFRICA COUNTRY										
Algeria		1	3	3	3	1				
Egypt				1	1	1	1			
Morocco			1	2	2	2				
Tunisia					1	1				
South Africa	2	1	4	4	4	2	1			

NORTH AMERICA	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010
COUNTRY	NUMBER OF CITIES									
Canada			3	13	13	10	3	3	3	
USA		11	44	42	19	6	5	5	5	
SOUTH AMERICA										
COUNTRY										
Argentina				1	6	2	2	2	2	
Brazil				1	7	5	4	5	5	
Guyana		1	1	1	1					
Colombia		1	1	2	1	1	1	1	1	
Mexico					1	1	2	2	2	
Uruguay					1	1	1	1	1	
Peru		1						2		
Cuba				1						
Trinidad and Tobago				1						
Chile				1	2		2		2	
Venezuela			1							
Australia			4	5	5					
New Zealand		1	2	5	4	3	3	1	1	



ASIA



AFRICA

South Africa 7 → 0

Tunisia 1 → 0

Morocco 2 → 0

Egypt 1 → 0

Algeria 3 → 0

number of operating systems

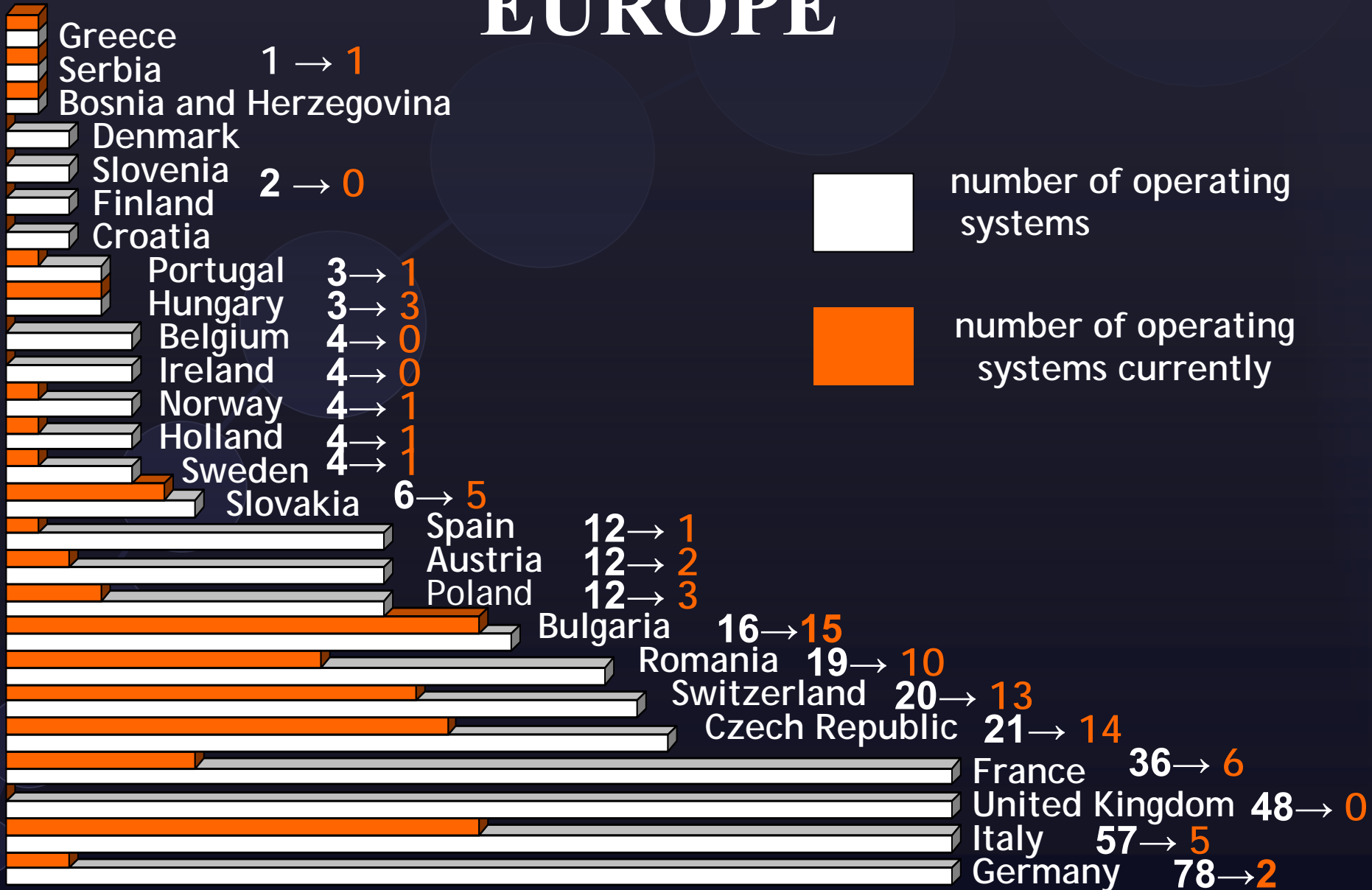
number of operating systems currently



NORTH AMERICA & SOUTH AMERICA



EUROPE



RESULTS

Comprehensive review of trolleybus systems evolution

Discover unknown levers to steer Trolleybus bypassing previous mistakes and enriching relevant skill

RESULTS

Who knows the history can avoid mistakes and implement positive achievements which might be even forgotten

***Thank you for your
attention!***