

TB/HIV in the WHO European Region

Accelerating advocacy on TB/HIV Vienna, 15 July 2010

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Presentation outline

- Epidemiology in WHO European Region
 - TB, HIV & HIV/TB
- Regional specificities



Surveillance: most important impact TB indicators

Indicator	What to measure	How to measure		
Incidence rate (/100,000)	New TB cases estimated in one year x 100,000	x determinants coefficient		
	Total midyear population			
Notification rate (/100,000)	New TB cases notified in one year	Notifications of TB		
	Total midyear population			
Case detection rate (%)	New TB cases notified in one year	Reports TB case finding		
	New TB cases estimated in one year			
Prevalence rate (/100,000)	New and old TB cases estimated in one year x 100,000	TB prevalence survey		
	Total midyear population			
Mortality rate (/100,000)	TB deaths in one year	Vital registration		
	Total midyear population			

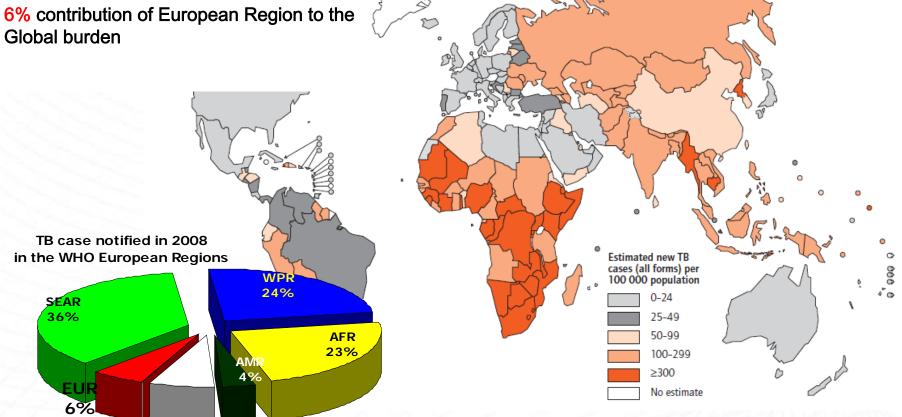


Global & European Region TB burden (2008)

9.4 mln new TB cases estimated globally in 2008 (139 per 100 000 population)

EMR

7%



Source: Global tuberculosis control: a short update to the 2009 report. WHO/HTM/TB/2009.426



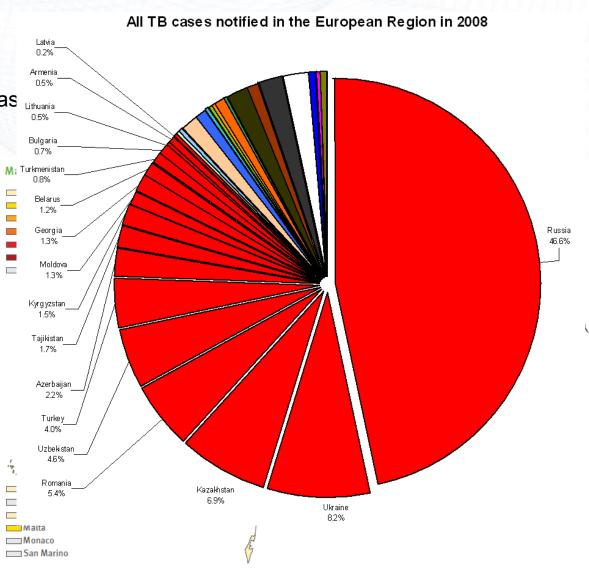
TB burden WHO European Region (2008)

In 2008, 50 (of 54) countries from the Region reported a total of 461,645 TB cases

The overall TB notification rate was Lithuaria 0.5%
52.2 per 100,000 population

46% notified cases from Russia

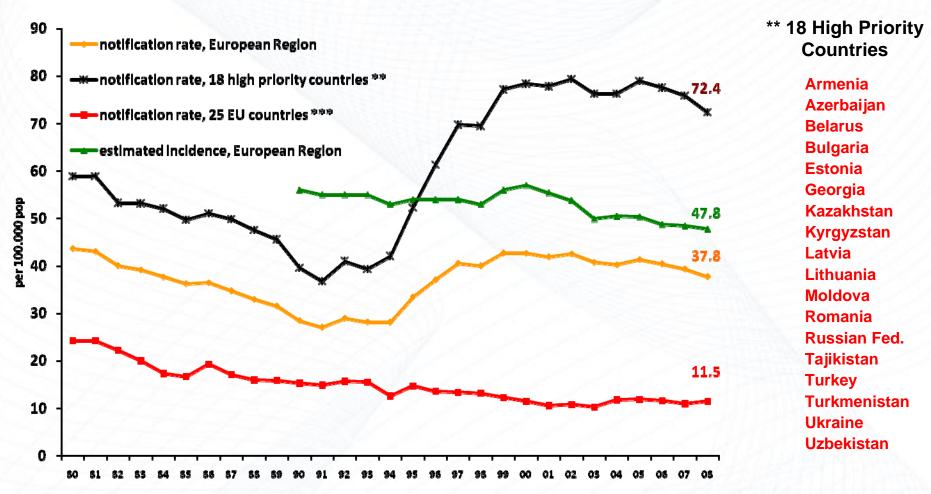
87.6% contribution of 18 HPC
the Regional TB burden



Data from Kosovo (in accordance with Security Council Resolution 1244 (1999)) is not included in the figures reported for Serbia



TB notification* rate and estimated incidence WHO European Region (1980-2008)

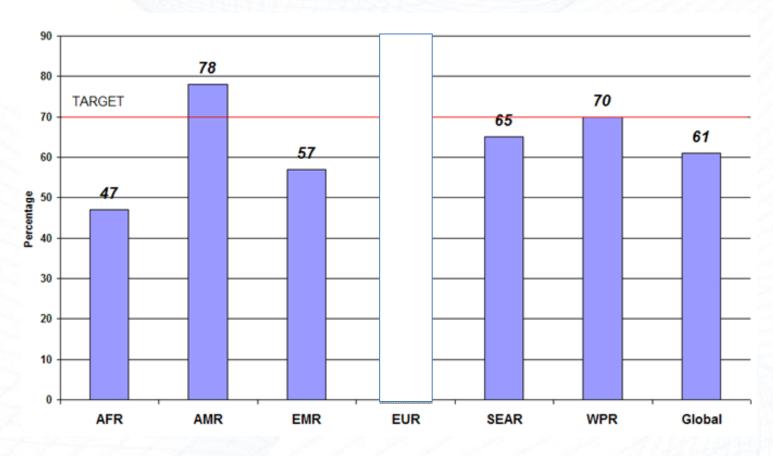


^{*} Newly notified episodes (TB cases) = new cases + relapses

^{***} excluding Bulgaria and Romania that become EU in 2007



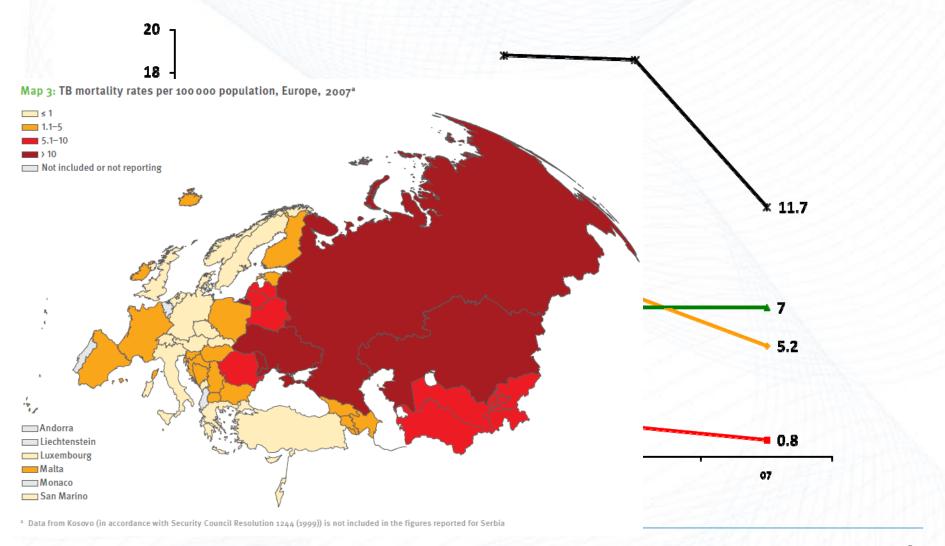
Case Detection Rates WHO Regions (2008)



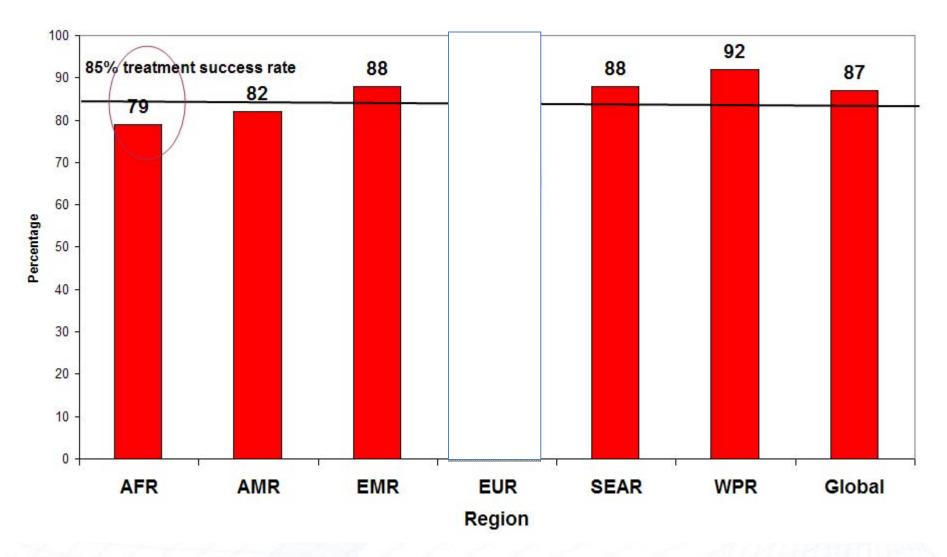
Overall, about 61% (5.5 million) of the estimated number of incident cases detected Case-detection has been stagnating globally since 2006.



Notified and estimated TB mortality rates WHO European Region (2003-2007)



Smear Positive treatment success rates 2007

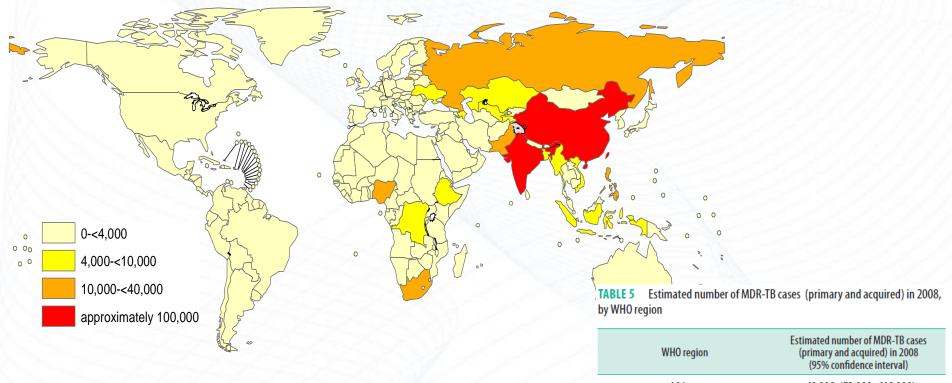


TSR (average in EUR) in 2005: 52/71 TSR (average in EUR) in 2006: 55/70



Estimated number of MDR-TB cases (2009)





Among all incident TB cases globally an estimated 3.6% are MDR-TB

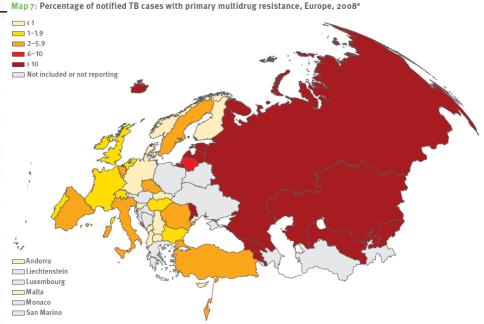
WHO region	Estimated number of MDR-TB cases (primary and acquired) in 2008 (95% confidence interval)
African	69 000 (53 000-110 000)
Americas	8 200 (7 300-9 300)
Eastern Mediterranean	24 000 (11 000-81 000)
European	81 000 (73 000-90 000)
South-East Asia	130 000 (110 000-170 000)
Western Pacific	120 000 (100 000-140 000)
Total	440 000 (390 000-510 000)



MDR-TB prevalence WHO European Region (2008)

Estimated MDR prevalence, among all TB cases	19.1% (81,000 cases)*		
Notified MDR prevalence, among all TB cases	18.1 % (18,365 cases)**		
Detection Rate of all MDR-TB cases	22.7 %		

Out of 27 countries that account for 85% of all MDR-TB cases, 15 are in the European Region



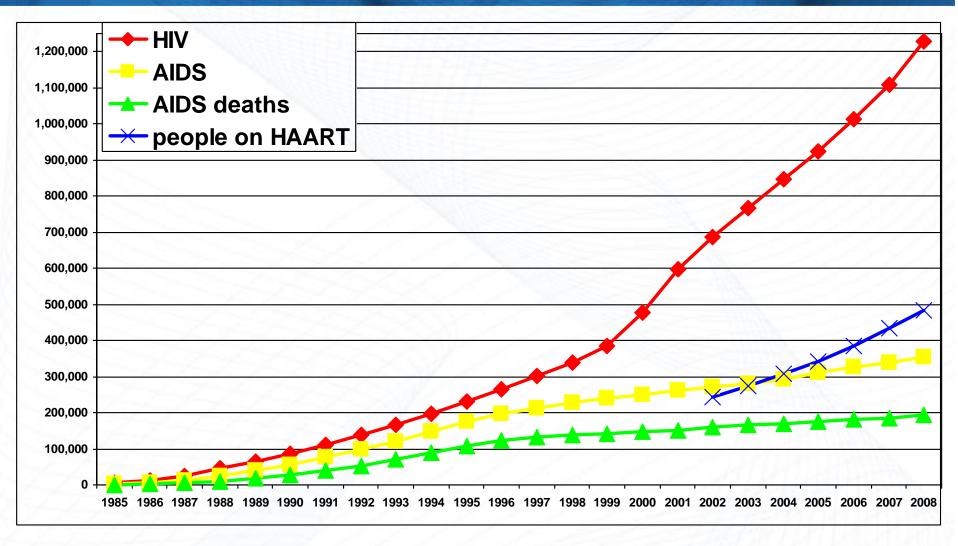
^{*} M/XDR-TB: 2010 global report on surveillance and response (WHO/HTM/TB/2010.3)

^{**} TB surveillance in Europe 2008: report (ISBN 978-92-9193-207-8; ECDC, 2010)

^{***} Data considered reliable if 50% of all cases were culture-positive, and 80% of them had reported DST results.



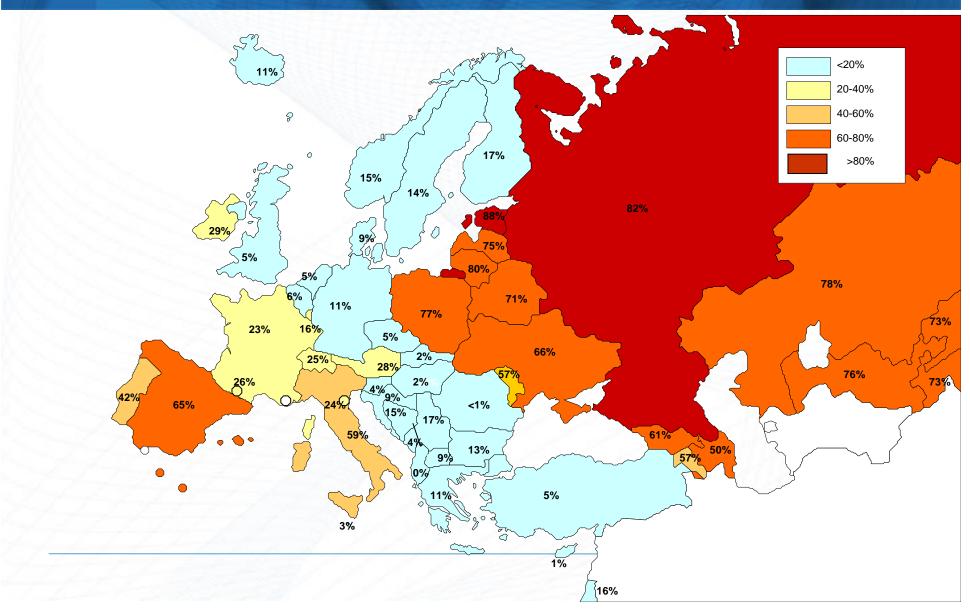
Cumulative number of reported HIV/AIDS cases in WHO European Region 1985-2008





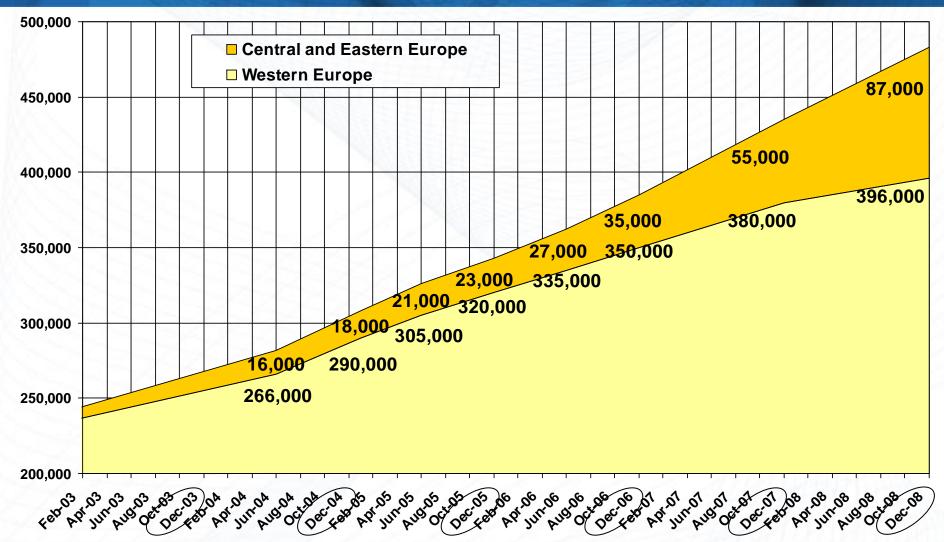
IDU as % of all HIV/AIDS cases with known transmission route

NOTE: % of AIDS cases in countries not reporting HIV: France, Italy, Spain Sources: WHO/ECDC, national reports.





Scaling up treatment in Europe





TB/HIV co-infection WHO European Region (2008)

• Оценочная распространённость ВИЧинфекции среди случаев ТБ = 5.6% (≈ 23.800 people)

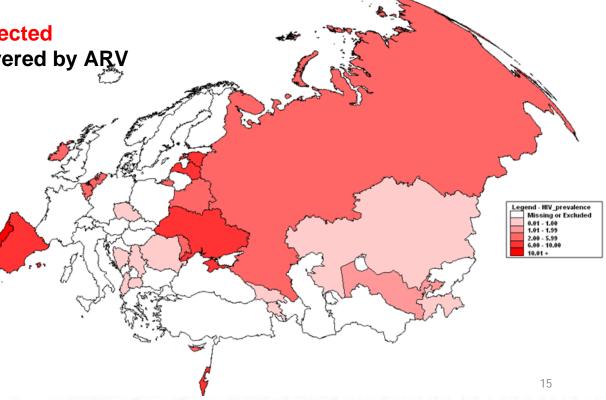
• HIV testing coverage = 79% (≈ 357.000 patients)

• HIV prevalence among tested TB = 3.0% (≈ 11.500 patients)

48% of TB/HIV patients are detected

• 28% of TB/HIV patients are covered by ARV

treatment





HIV testing and treatment in TB patients, by WHO Regions (2008)

	HIV case finding among TB patients						TB case finding among PLHIV		
IV.	1	% of notified			% of	% of	Regional	Number of	
		TB patients			identified	identified	distribution	•	HIV-positive
	with known		HIV-	HIV-positive				screened	people
	HIV status	HIV	positive	TB	TB patients			for TB	provided
	(thousands)			casesi dentif			TB among	,	
				ied by	CPT	ART	HIV-positive		(thousands)
<u> </u>				testing			(%)		11111
AFR	636	45	46	27	73	30	78	729	26
AMR	113	49	15	45	36	67	2.7	48	12
EMR	22	5.4	4.1	5.8	39	55	1.1	12	0.7
EUR	357	79	3.3	48	61	28	1.7	205	9.2
SEA	94	4.1	18	9.3	54	35	13	300	0.2
WPR	152	11	7.0	24	55	28	3.1	90	0.7
Global	1374	22	26	25	71	32	100	1384	48



Regional challenges

- Both epidemics spread within vulnerable "most at risk populations" i.e. drug users, prisoners and migrants
- Out of the system, poor access to services, marginalized and stigmatized
- Low uptake of HIV testing, limited access to ART
- Limited collaboration between the vertical HIV and TB programmes (drug dependence, STIs, viral hepatitis)
- Lack of integration between HIV and TB services