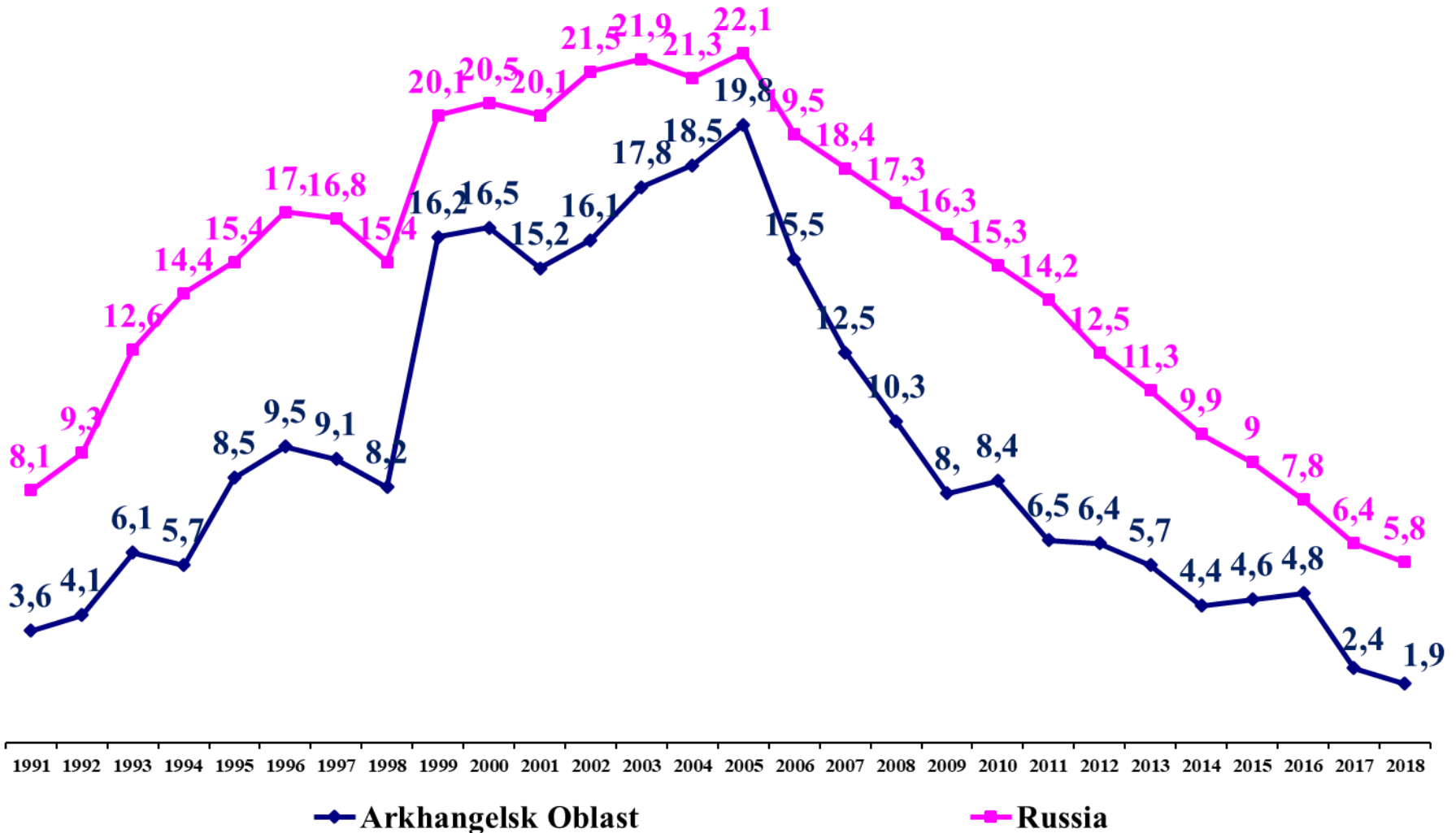


Epidemiological Situation on TB in the Arkhangelsk Oblast

Andrey O. Maryandyshev,
Chief Phthisiatrician for the Northwestern Federal Okrug,
Corresponding Member of the Russian Academy of Sciences,
Head of the Department of Phthisiopulmonology, Professor,
Northern State Medical University (Arkhangelsk)

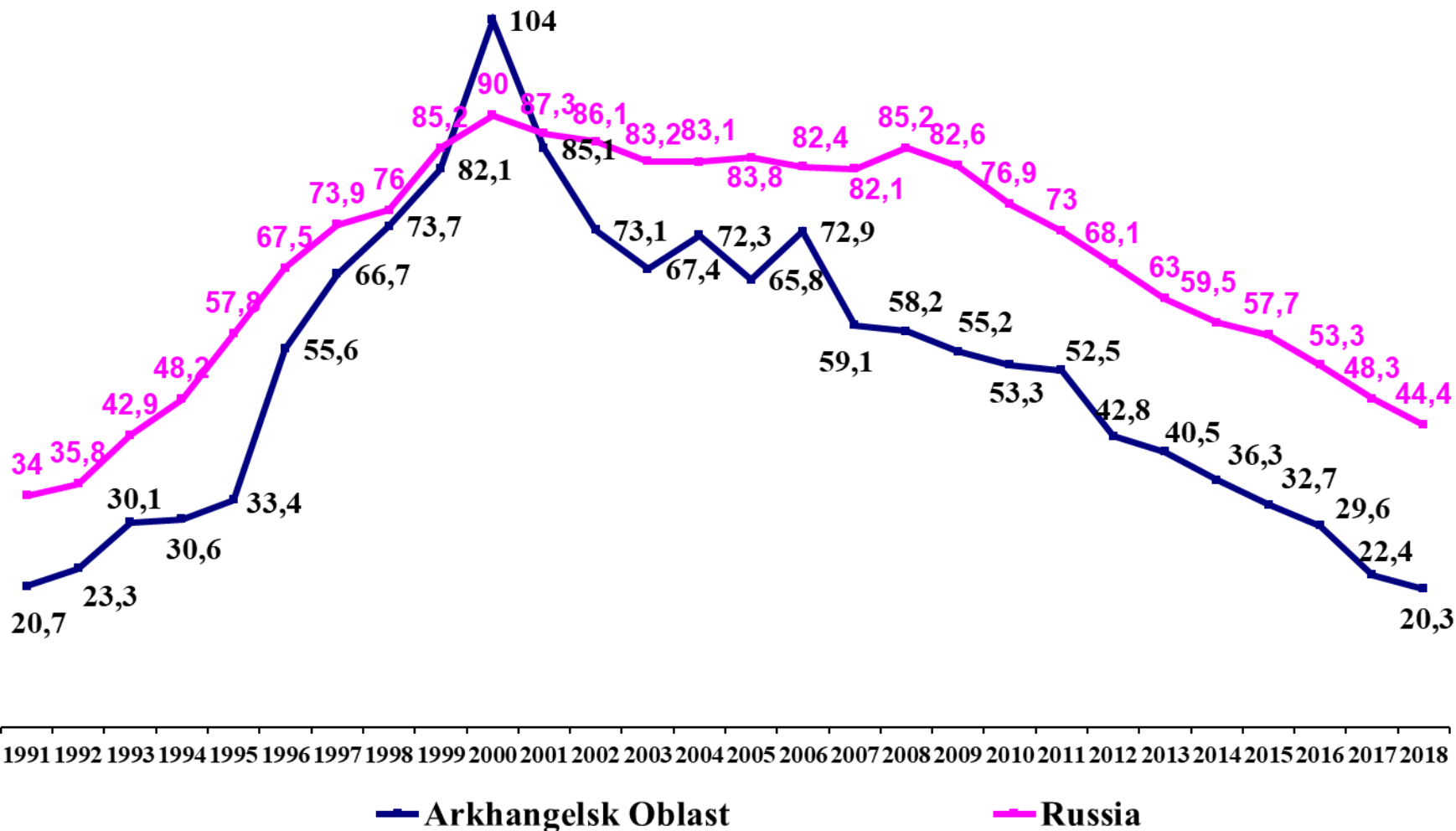
Elena I. Nikishova,
DM, Professor of the Department of Phthisiopulmonology
Northern State Medical University (Arkhangelsk)

TB Mortality in Russia and the Arkhangelsk Oblast including prison (per 100 000 population)

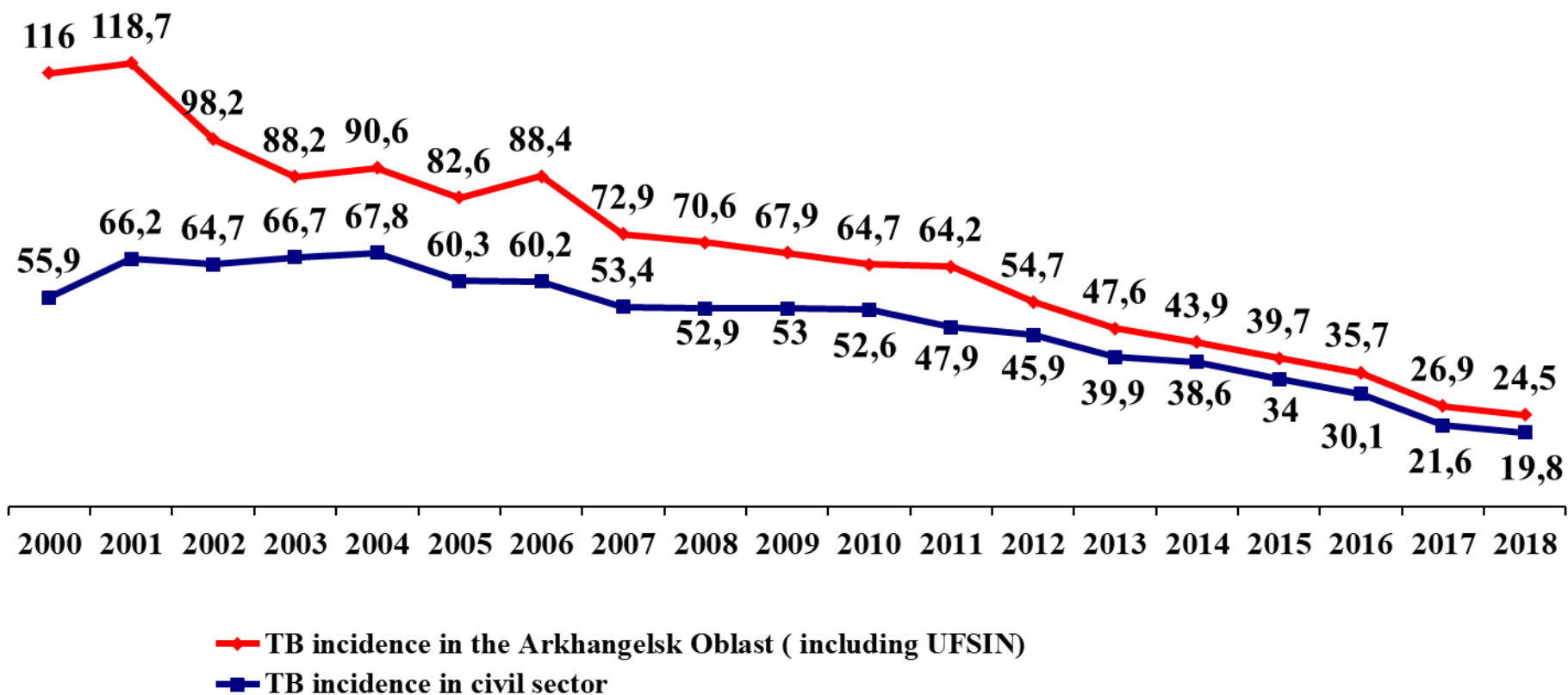


TB incidence (new cases) in Russia and the Arkhangelsk Oblast

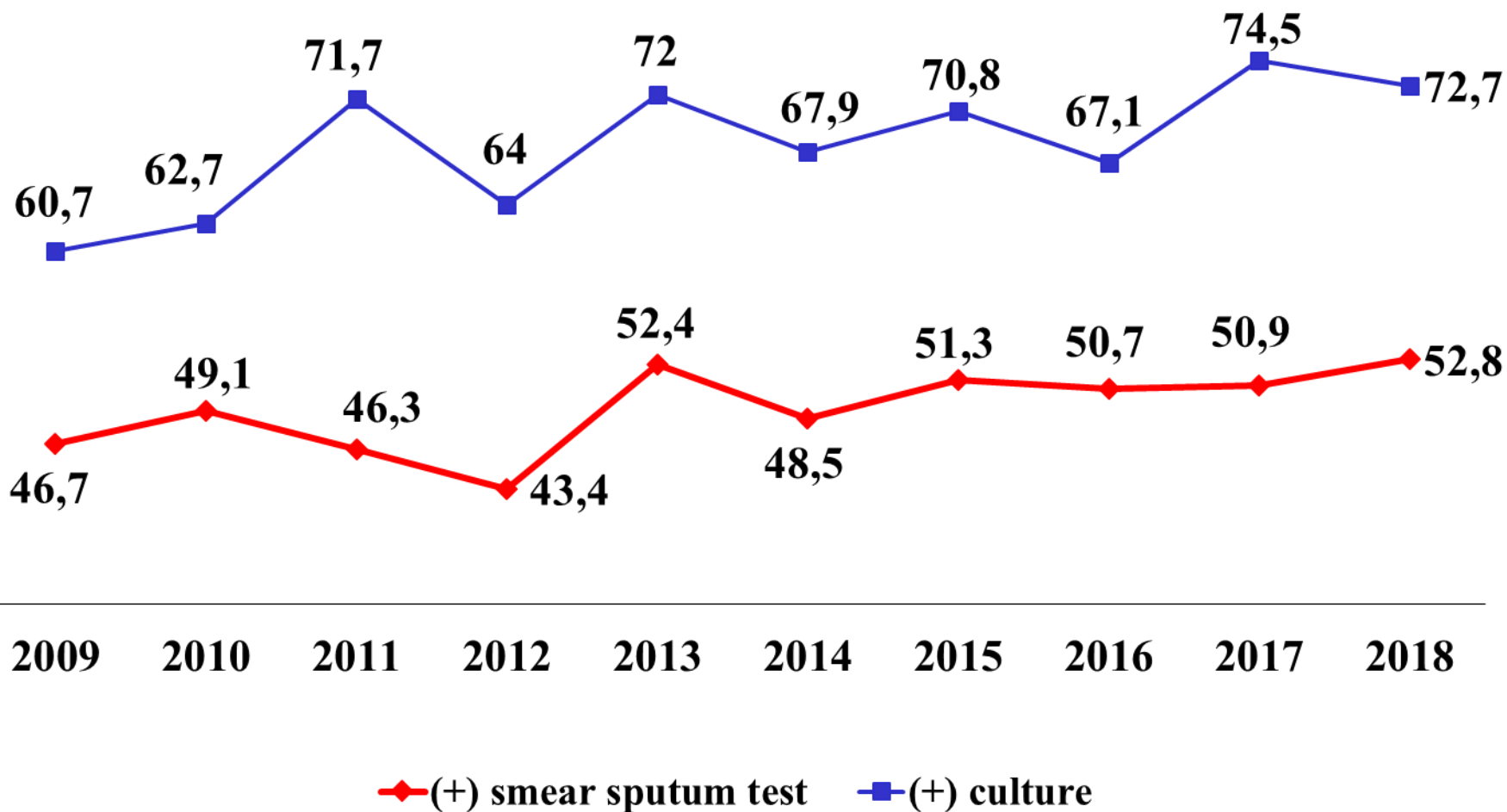
1991 - 2018 (per 100 000 population)



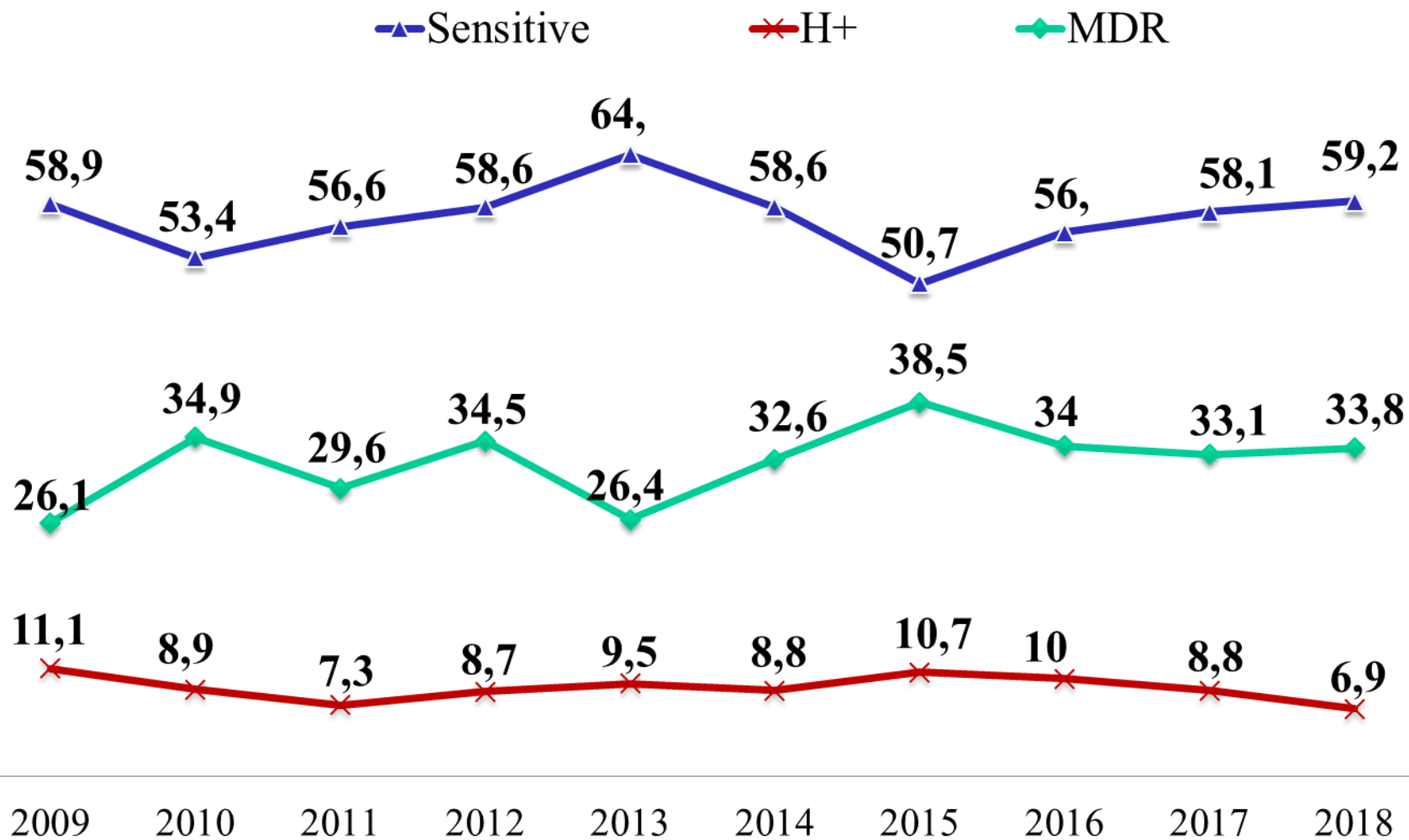
TB incidence (*new cases and relapses*) in the Arkhangelsk Oblast в 2000-2018 (per 100 000)



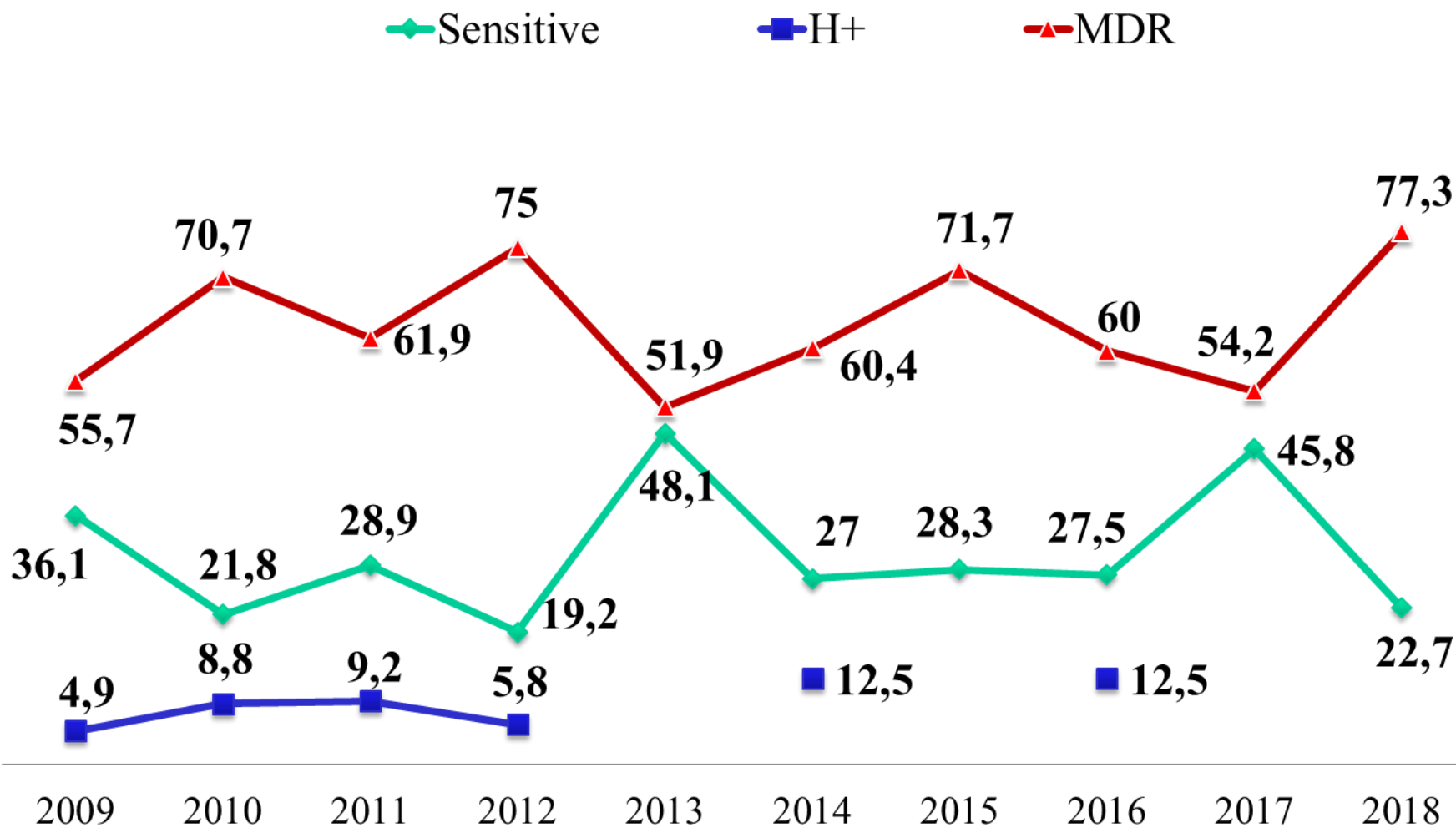
Bacteriologically proven pulmonary TB in civil sector in the Arkhangelsk Oblast in 2001-2018 (in percent)



Drug resistance of Mycobacteria in patients of “new pulmonary TB case” group in 2009 - 2018 (in percent)



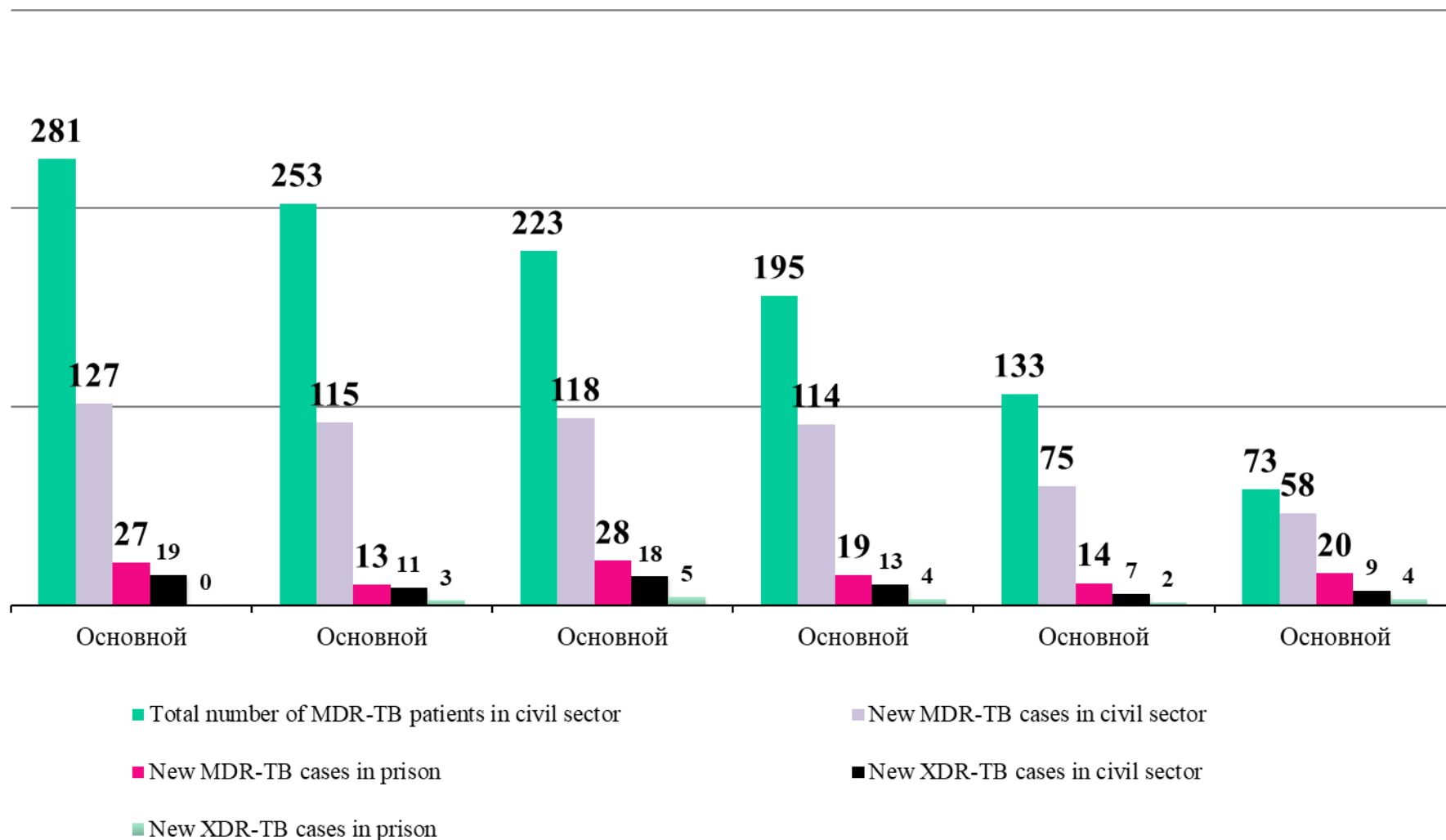
Drug resistance of Mycobacteria in patients of “TB relapse” group in 2009 - 2018 (in percent)



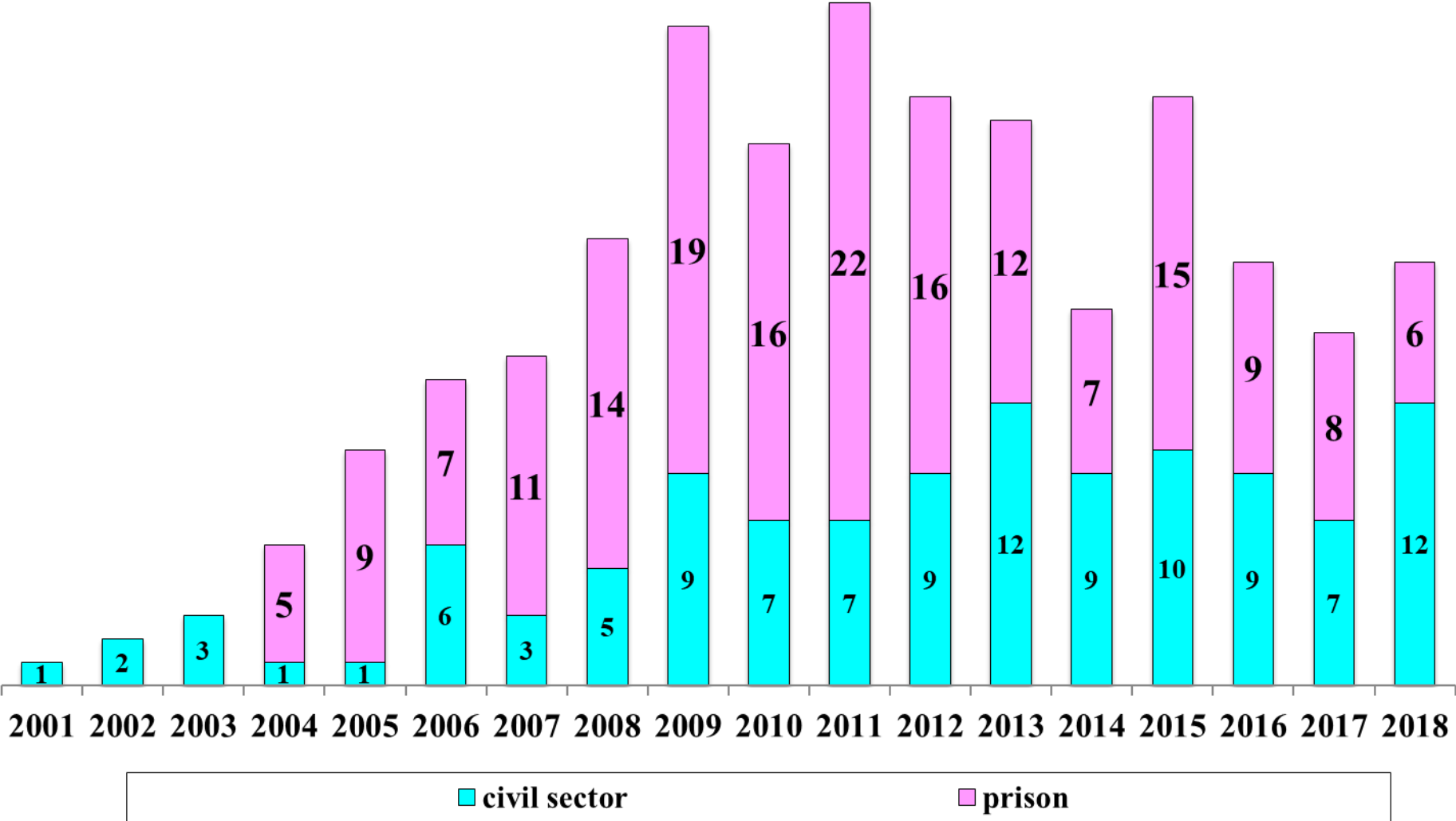
**MBT drug sensitivity monitoring data in civil sector in 2018
(percentage from the total number of drug sensitivity tests)**

MBT drug sensitivity ranges	New case	Relapse	Treatment after interrupted chemoprevention	Treatment after ineffective chemoprevention / treatment failure
Notified in total	193	27	8	11
Patients with confirmed bacterial excretion	130	22	8	10
Patients tested for MBT drug sensitivity	130	22	8	10
Retained drug sensitivity	77 (59,2%)	11 (22,7%)	1 (12,5%)	6 (60%)
Resistance to H+	9 (6,9%)			1 (10%)
Resistance to R/H R	33 (25,4%)	11 (22,7%)	6 (75%)	
Resistance to H R Fq	1 (0,8%)	2 (9,1%)		
Resistance to H R Km/Am/Cm	7 (5,4%)			
Resistance to H R Fq Km/Am/Cm	3 (2,3%)	4 (18,2%)	1 (12,5%)	3 (30%)

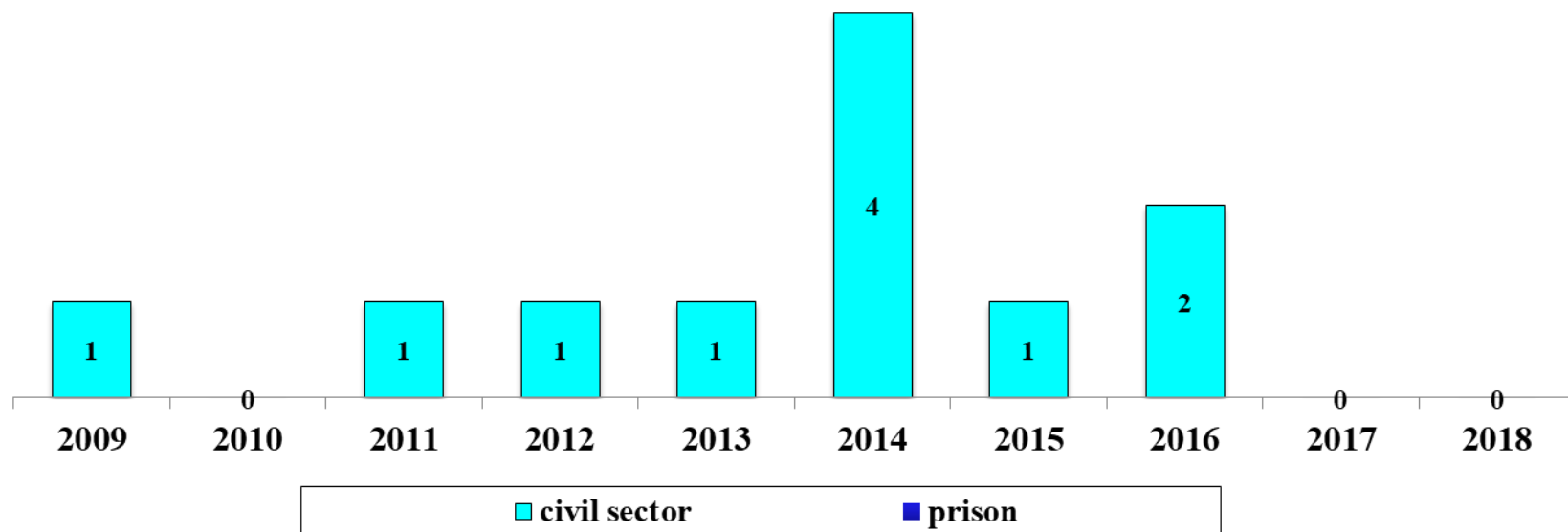
MDR/XDR-TB notification in civil and penal sector in the Arkhangelsk



New TB/HIV cases in the Arkhangelsk Oblast



TB/HIV relapses in the Arkhangelsk Oblast



Main challenges for further improvement of epidemiological situation

- High level of spread of resistant MBT strains
- Increase of PLHIV
- Increase of people with other types of immunodeficiency

Thank you for your attention!

