



World Tuberculosis Day 2015

The TB situation in 2013: Findings from the joint TB surveillance and monitoring report by ECDC and the WHO Regional Office for Europe

ECDC TB Team

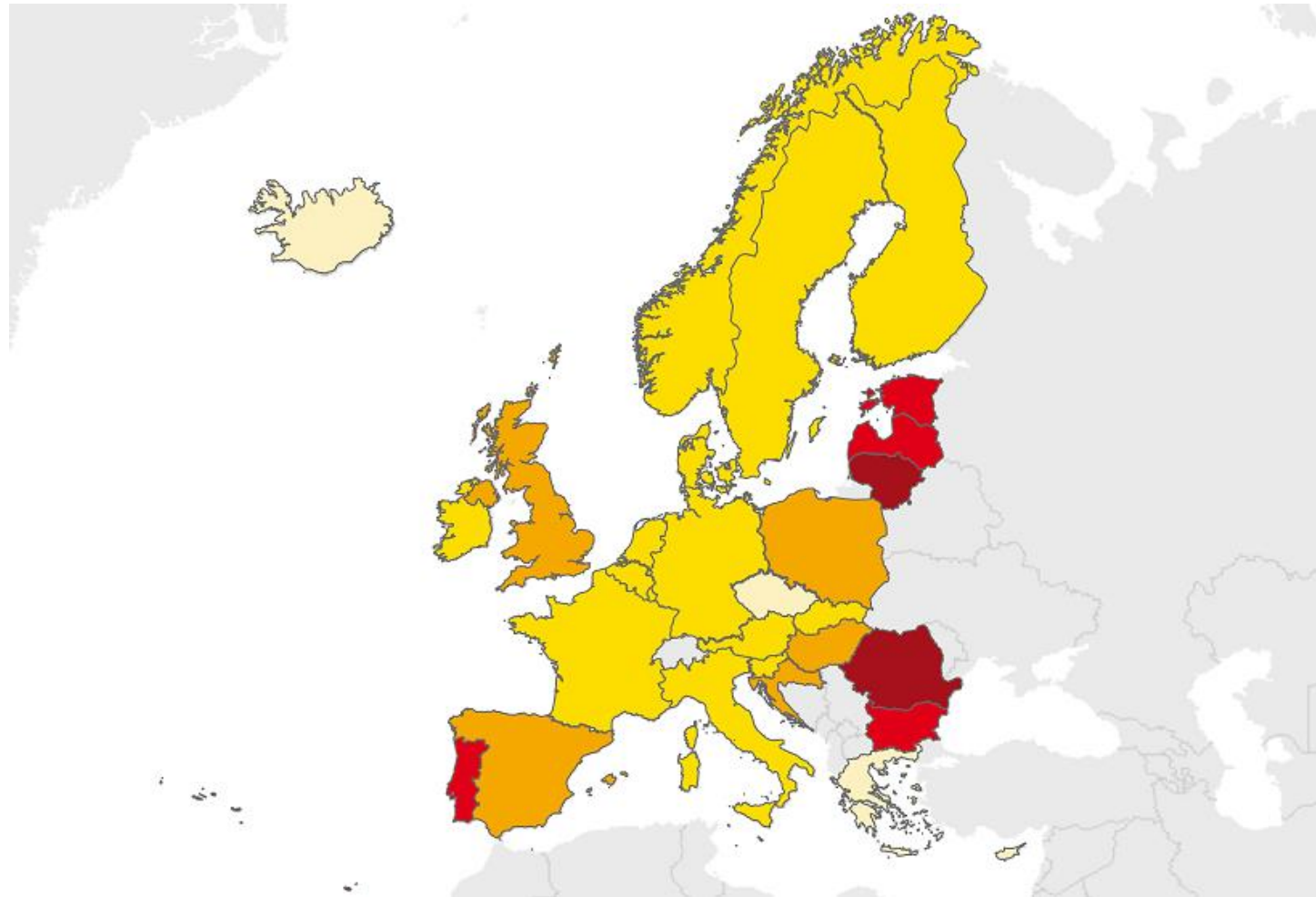
European Centre for Disease Prevention and Control

Stockholm, 24 March 2015

TB notifications by country

In 2013, 64 844 TB cases were reported in the EU/EEA.
The notification rate was 12.7 per 100 000 population (range 3.4–83.5).

Figure 1: TB notification rate per 100 000 population by country, EU/EEA, 2013



< 5 per 100 000

5 to 9 per 100 000

10 to 19 per 100 000

20 to 49 per 100 000

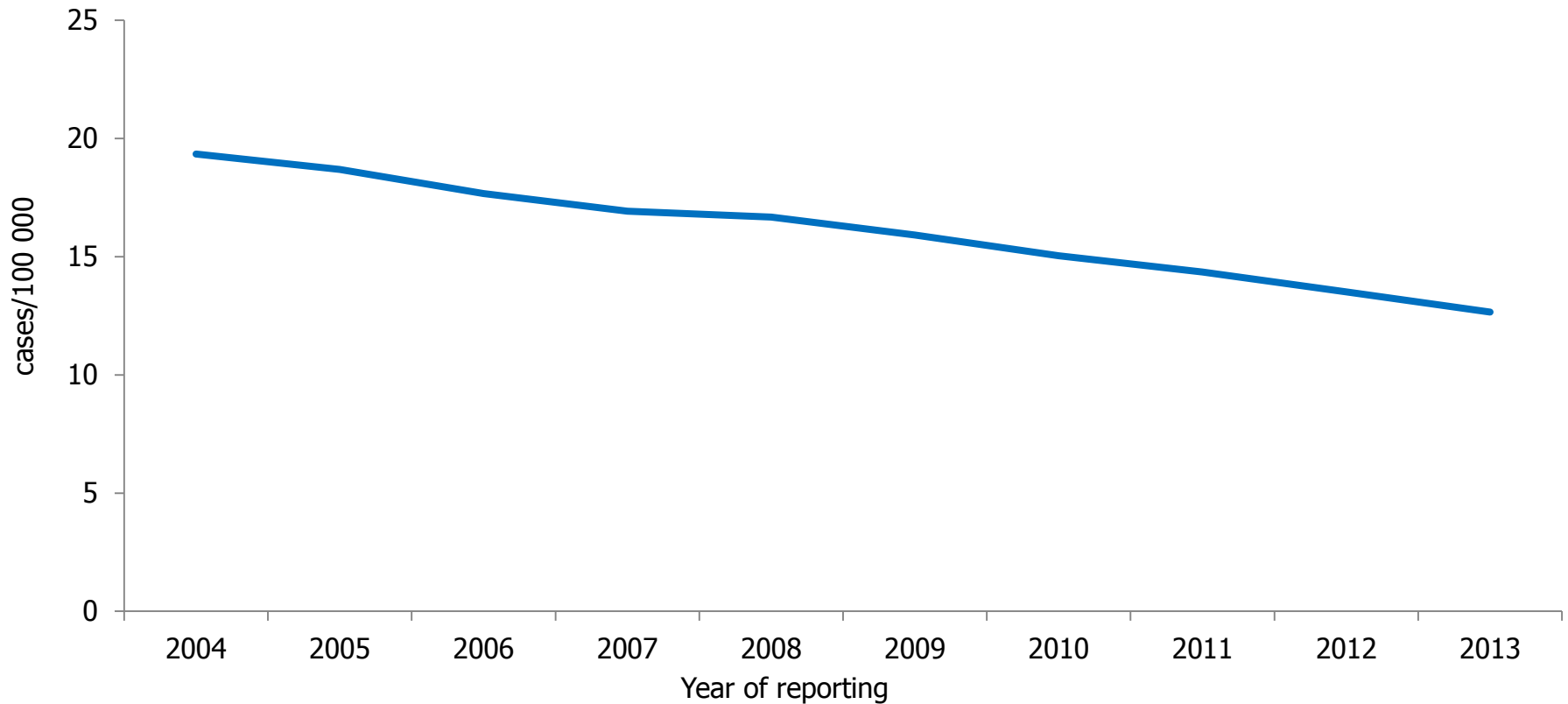
≥ 50 per 100 000

Not included or not reporting

TB notification rate over time

The TB notification rate has decreased from 19.3 per 100 000 population in 2004 to 12.7 in 2013.

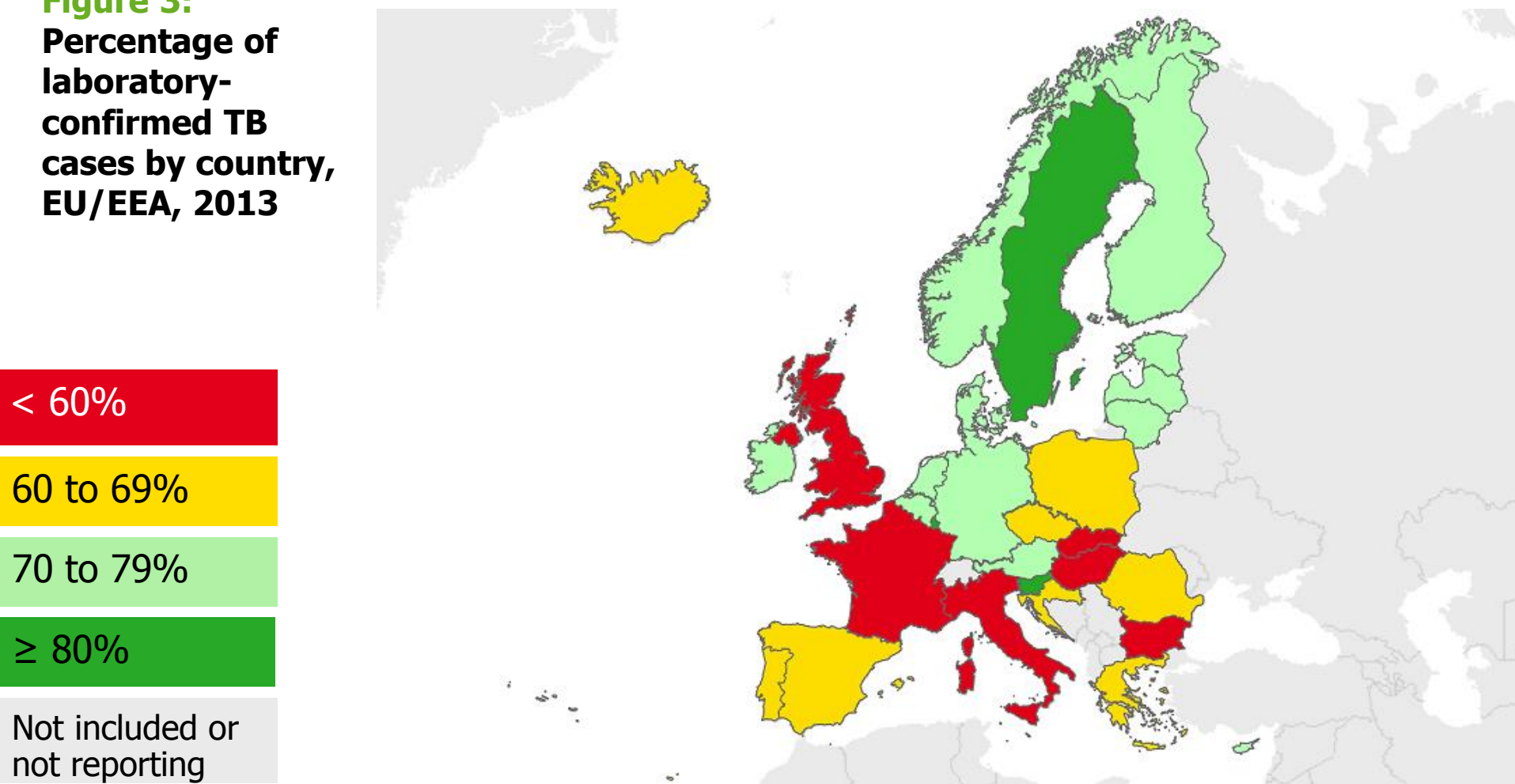
Figure 2: TB notification rate per 100 000 population in EU/EEA 2004–2013



EU definition: confirmed TB cases*

In 2013, 62.1% (range 21.4–94.3%) of TB cases reported in the EU/EEA were laboratory confirmed.

Figure 3:
Percentage of laboratory-confirmed TB cases by country, EU/EEA, 2013

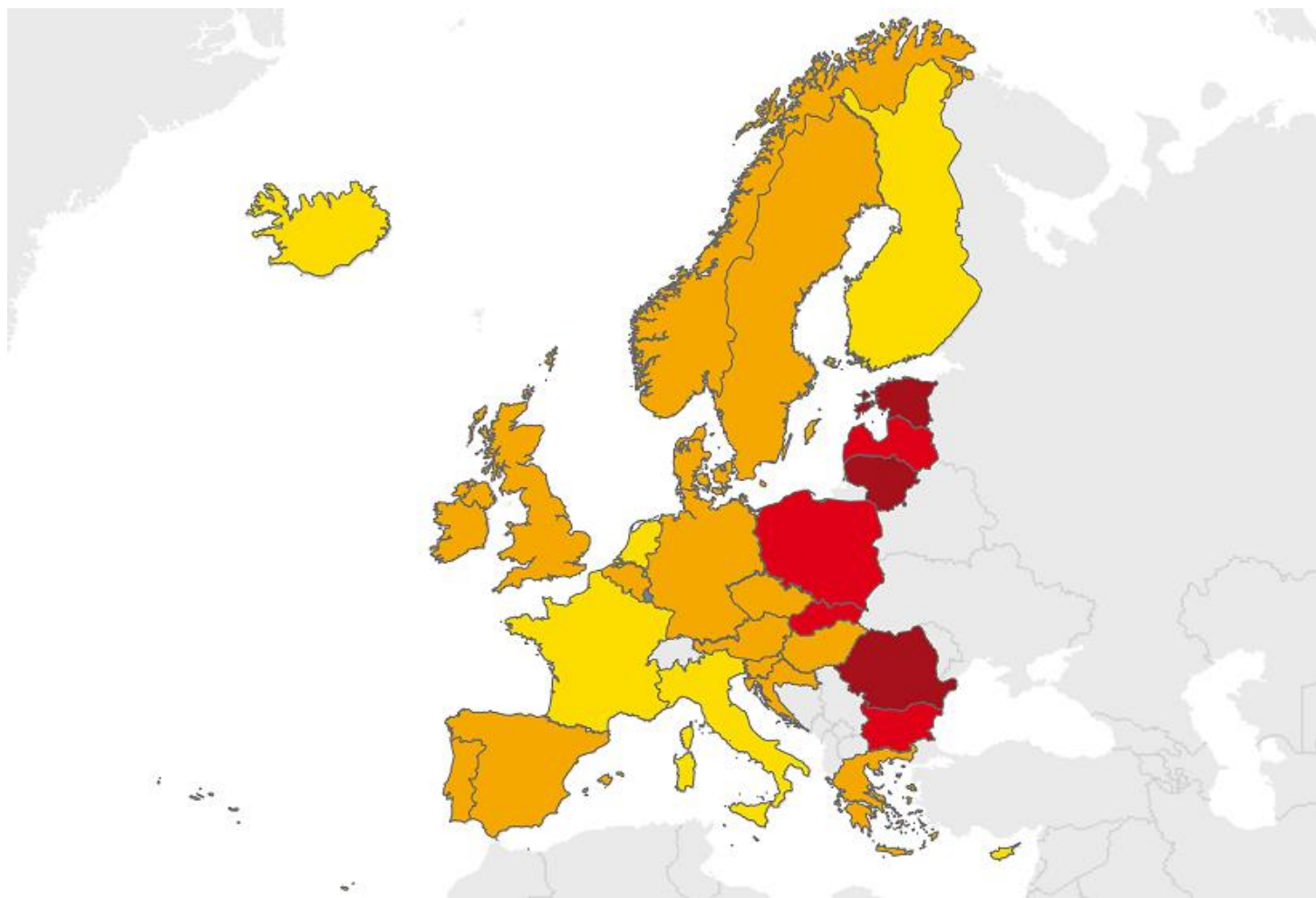
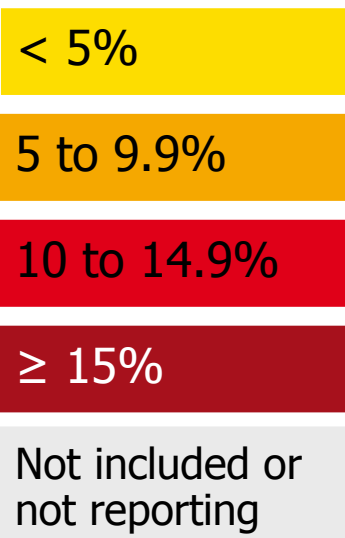


* Confirmed by culture or by both a positive sputum microscopy result and *Mycobacterium tuberculosis* nucleic acid identified in nucleic acid amplification test.

Previously treated TB cases

In 2013, the proportion of all previously treated TB cases in the EU/EEA was 11.7% (range 0.0–23.0%).

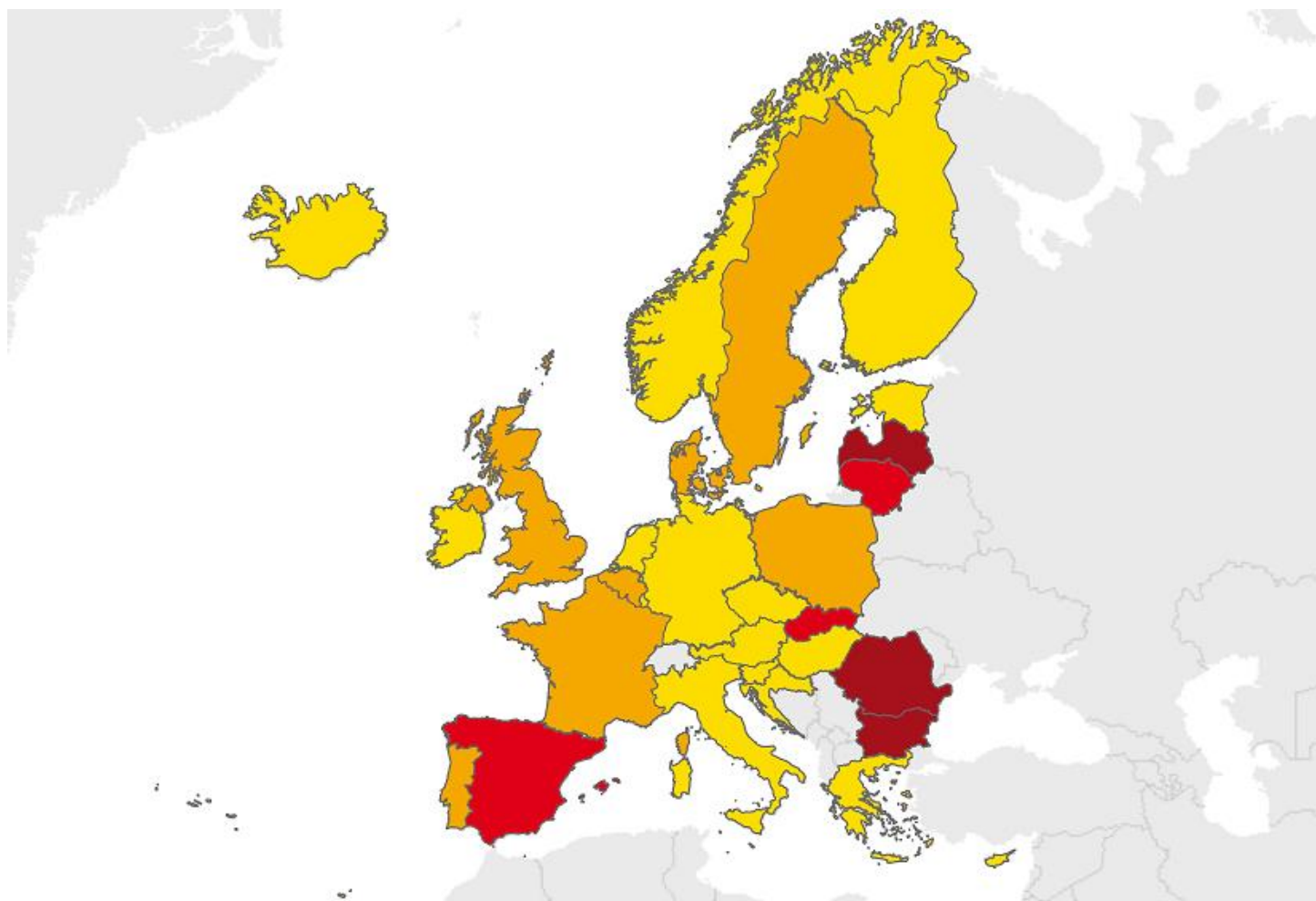
Figure 4:
Percentage of
previously
treated TB cases
by country,
EU/EEA, 2013



TB in children

In 2013, 2 655 TB cases in children were reported, accounting for 4.1% of all notified TB cases (range 0–9.5%) in the EU/EEA.

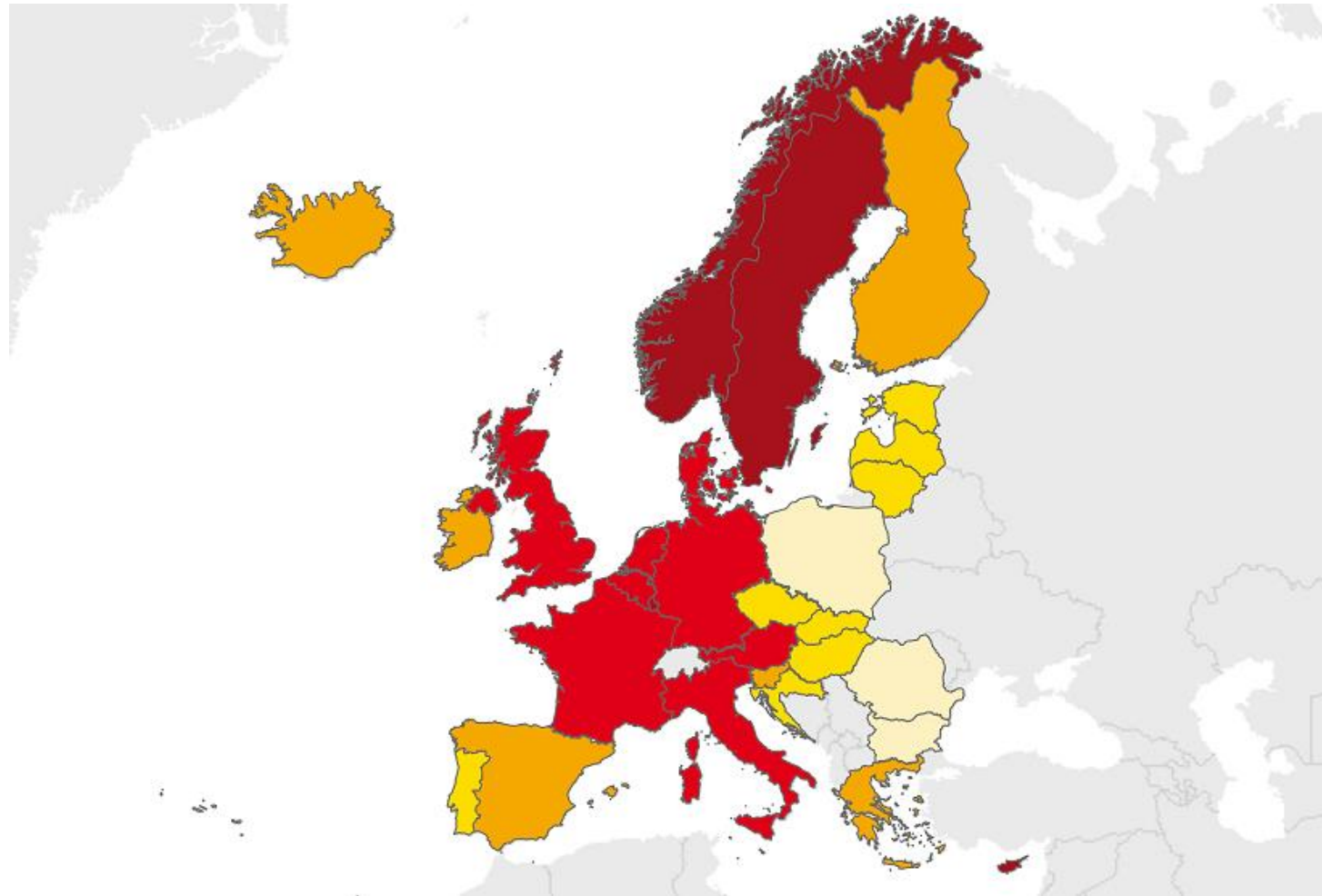
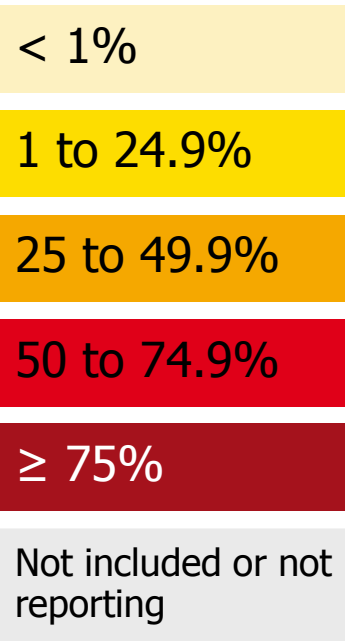
Figure 5: TB notification rate in children under 15 years of age per 100 000 child population, by country, EU/EEA, 2013



TB cases of foreign origin

In 2013, the proportion of TB cases of foreign origin in the EU/EEA was 28.0% (range 0.3–94.7%).

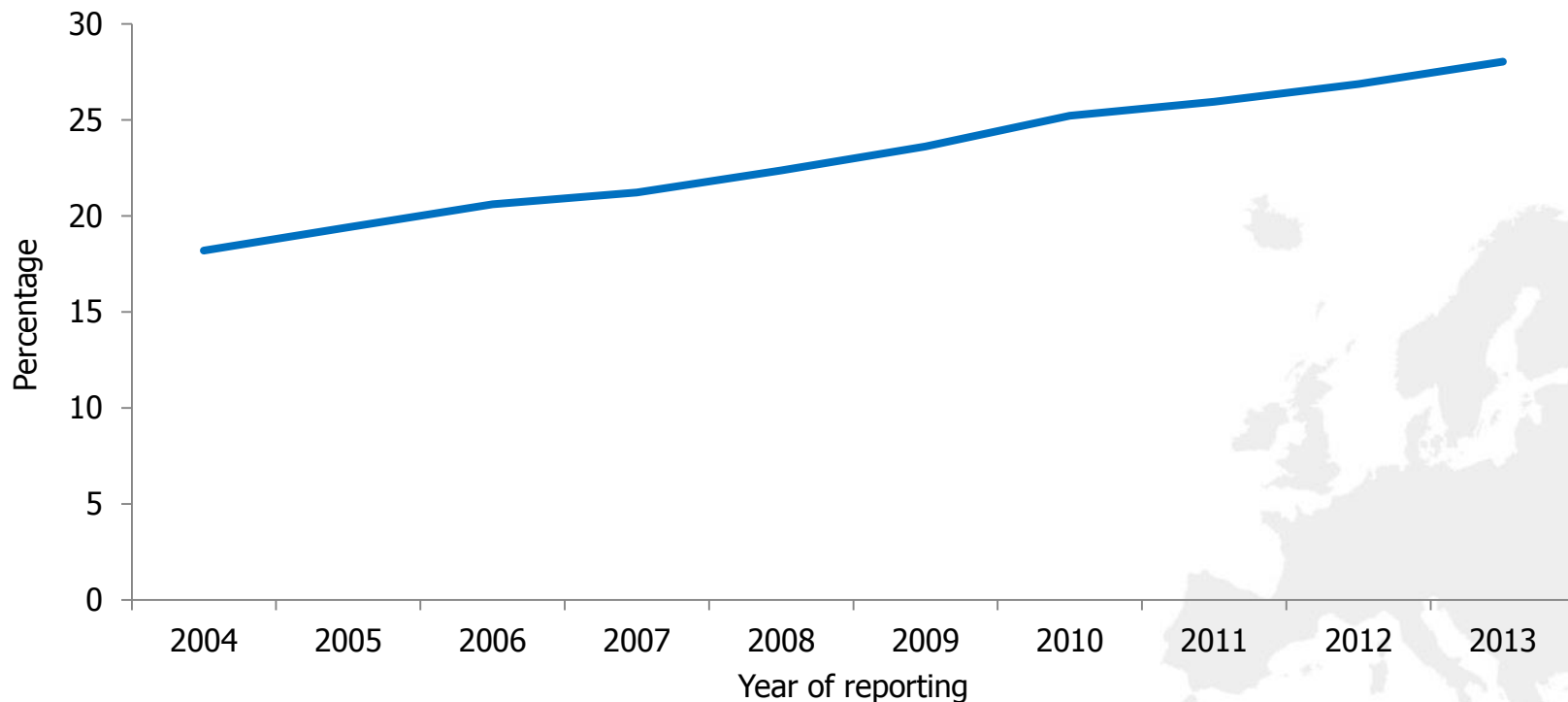
Figure 6:
Percentage of TB cases of foreign origin by country, EU/EEA, 2013



TB cases of foreign origin over time

The percentage of foreign TB cases increased from 18.2% in 2004 to 28.0% in 2013. The notification rate of foreign-origin TB cases has remained stable since 2004 (between 3.4 and 3.8 per 100 000 population).

Figure 7: Percentage of TB cases with foreign origin, EU/EEA, 2004–2013



Extrapulmonary TB cases

In 2013, the proportion of extrapulmonary TB cases in the EU/EEA was 22.3% (range 4.7–63.6%).

Figure 8:
Percentage of
extrapulmonary
TB cases by
country, EU/EEA,
2013

< 10%

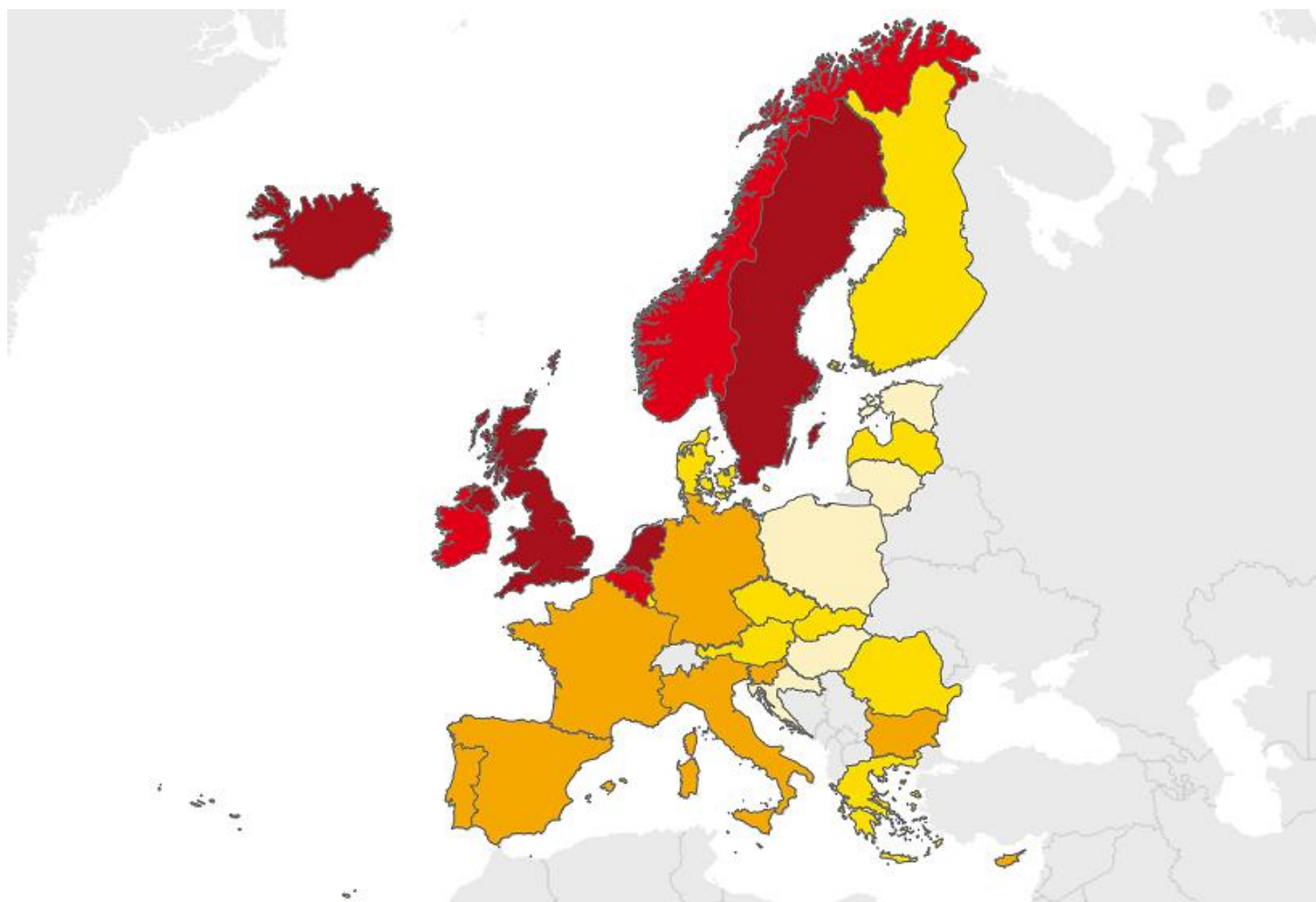
10 to 19.9%

20 to 29.9%

30 to 39.9%

≥ 40%

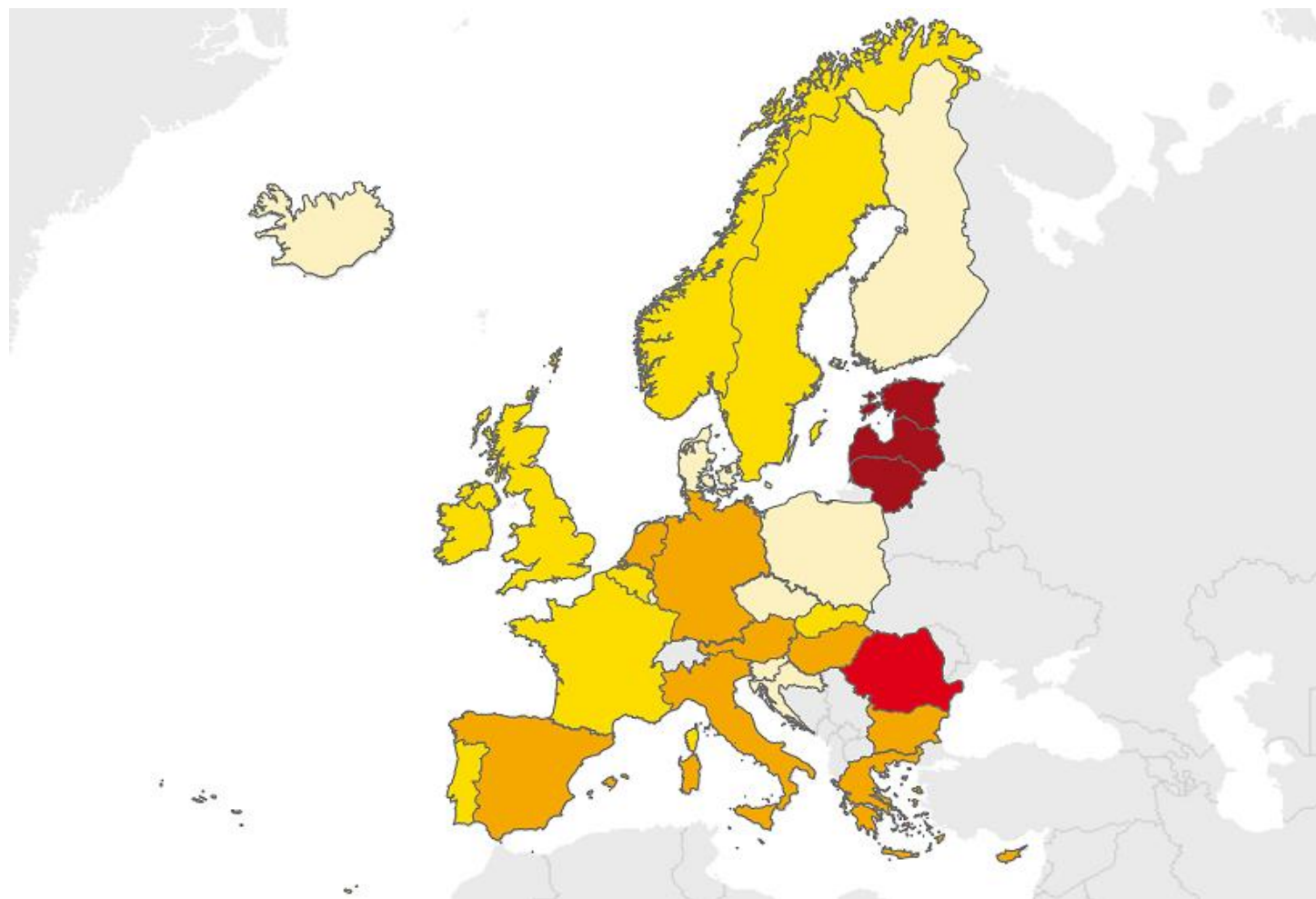
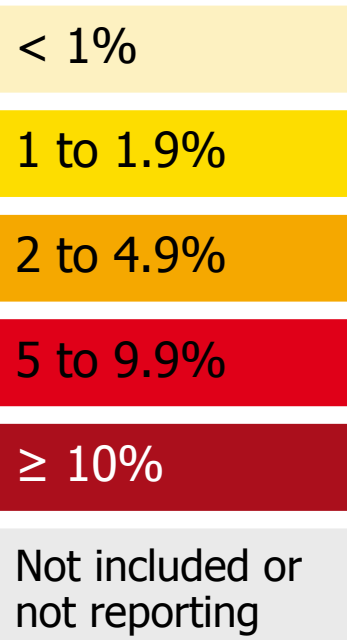
Not included or
not reporting



Multidrug-resistant TB among all TB cases

In 2013, the proportion of TB cases with multidrug-resistance in the EU/EEA was 4.1% (range 0–22.7%).

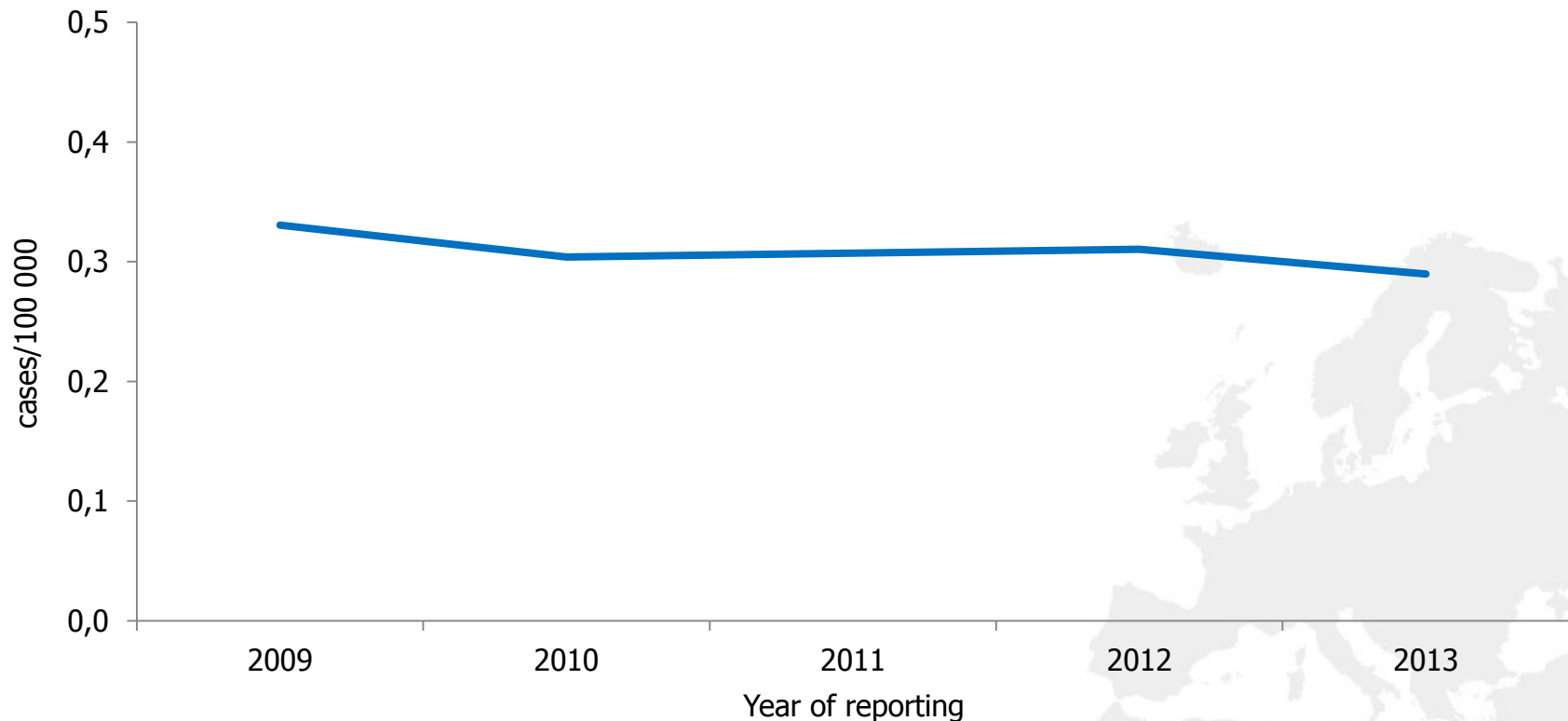
Figure 9:
Percentage of MDR TB among all confirmed TB cases by country, EU/EEA, 2013



Multidrug-resistant TB case notification rate over time

The rate of notified MDR TB cases has remained stable over the past five years at 0.3 per 100 000 population.

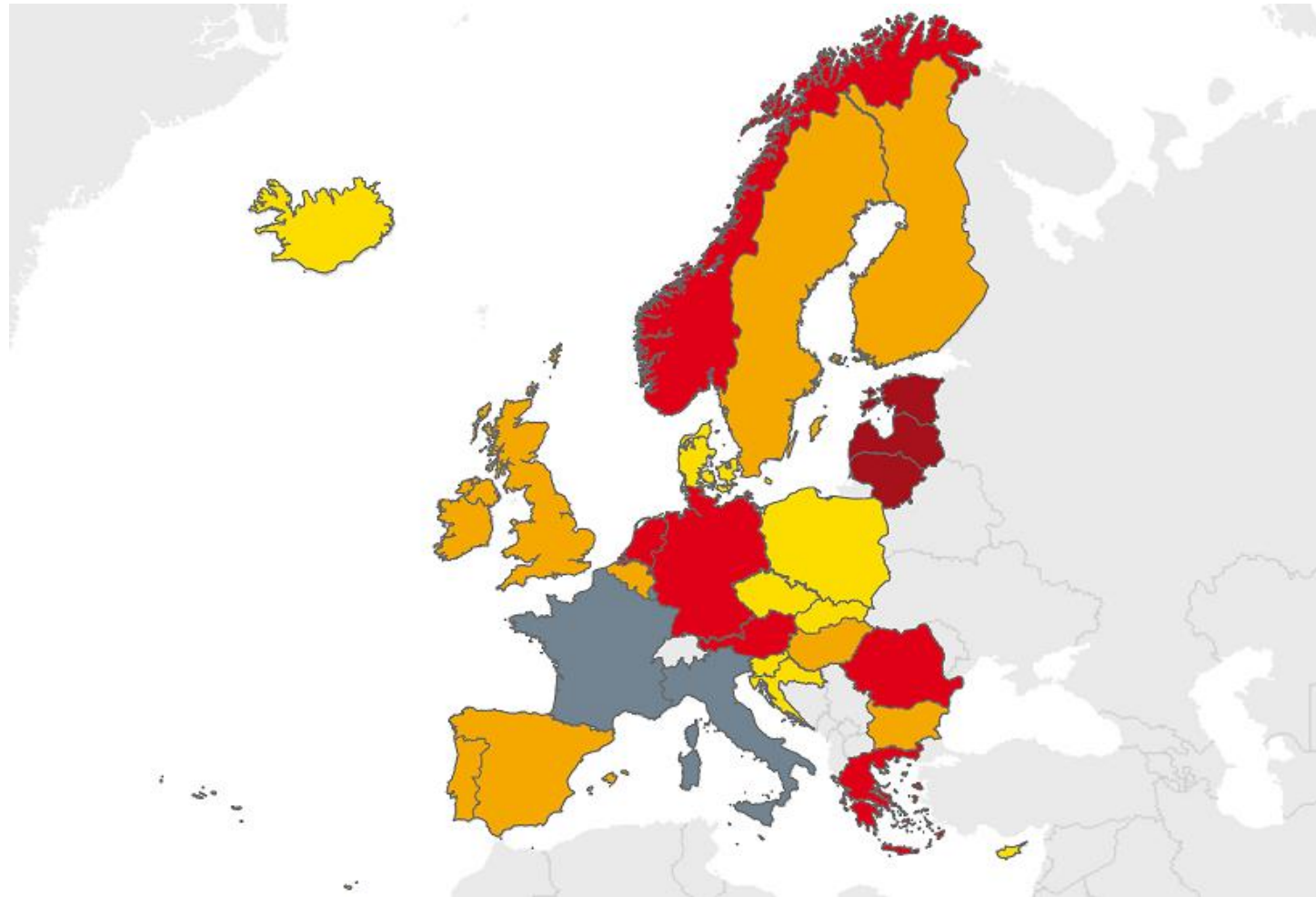
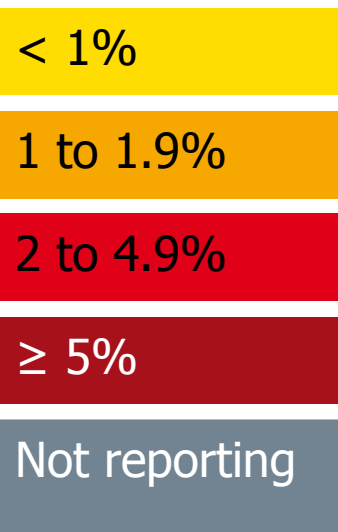
Figure 10: MDR TB notification rate per 100 000 population in EU/EEA 2009–2013



Multidrug-resistance among new pulmonary TB cases

In 2013, the percentage of new pulmonary TB cases with multidrug-resistance in the EU/EEA was 2.6% (range 0–17.3%).

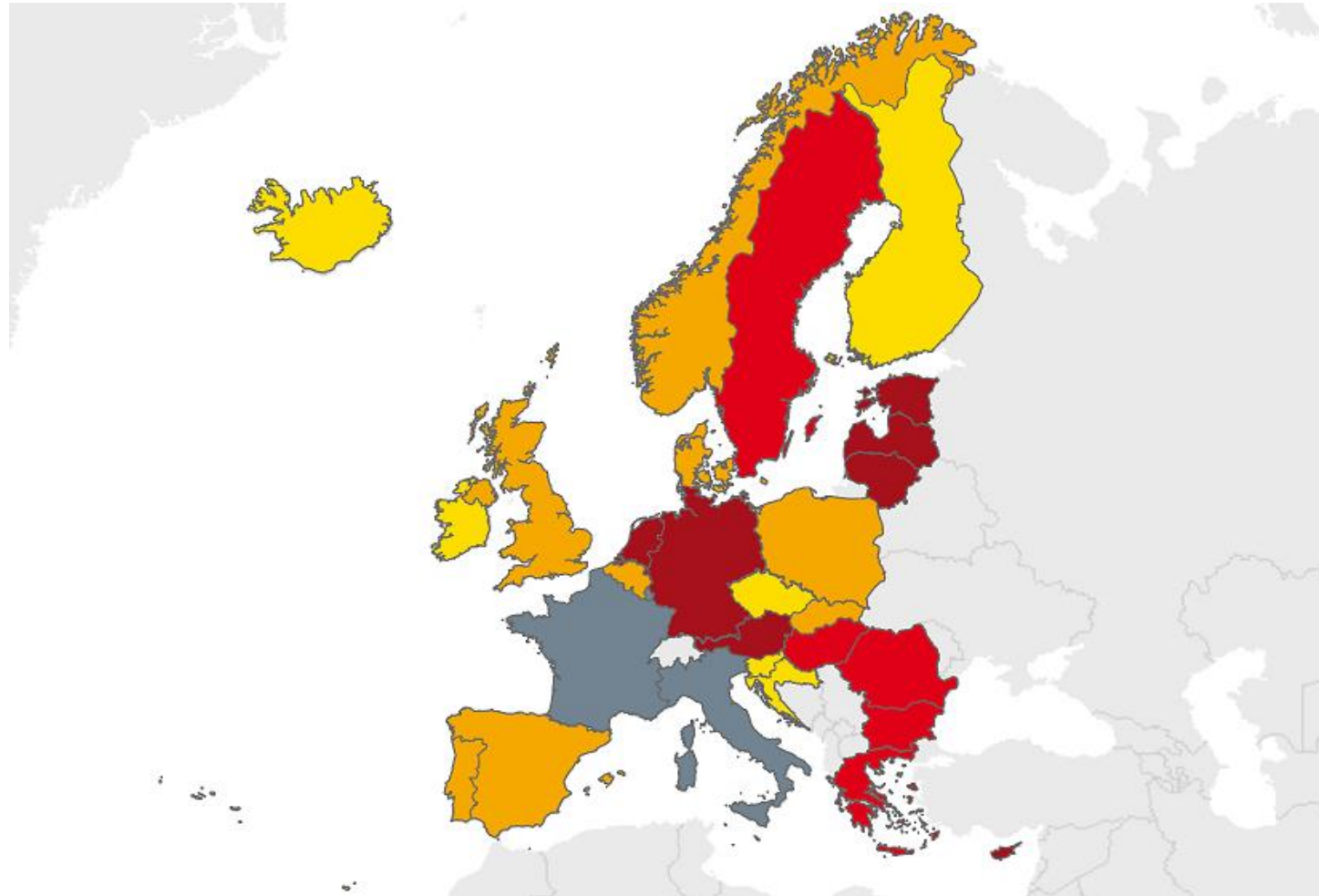
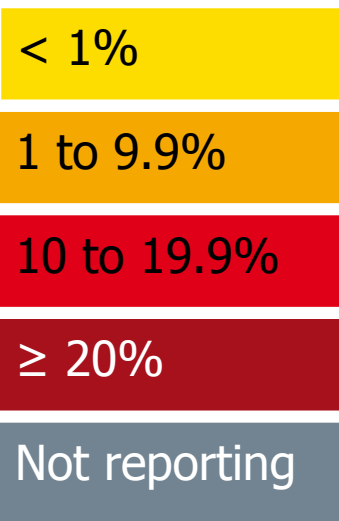
Figure 11:
Percentage of new pulmonary TB cases with MDR TB by country, EU/EEA, 2013



Multidrug-resistance among previously treated pulmonary TB cases

In 2013, the proportion of previously treated pulmonary TB cases with multidrug-resistance in the EU/EEA was 17.0% (range 0–100.0%).

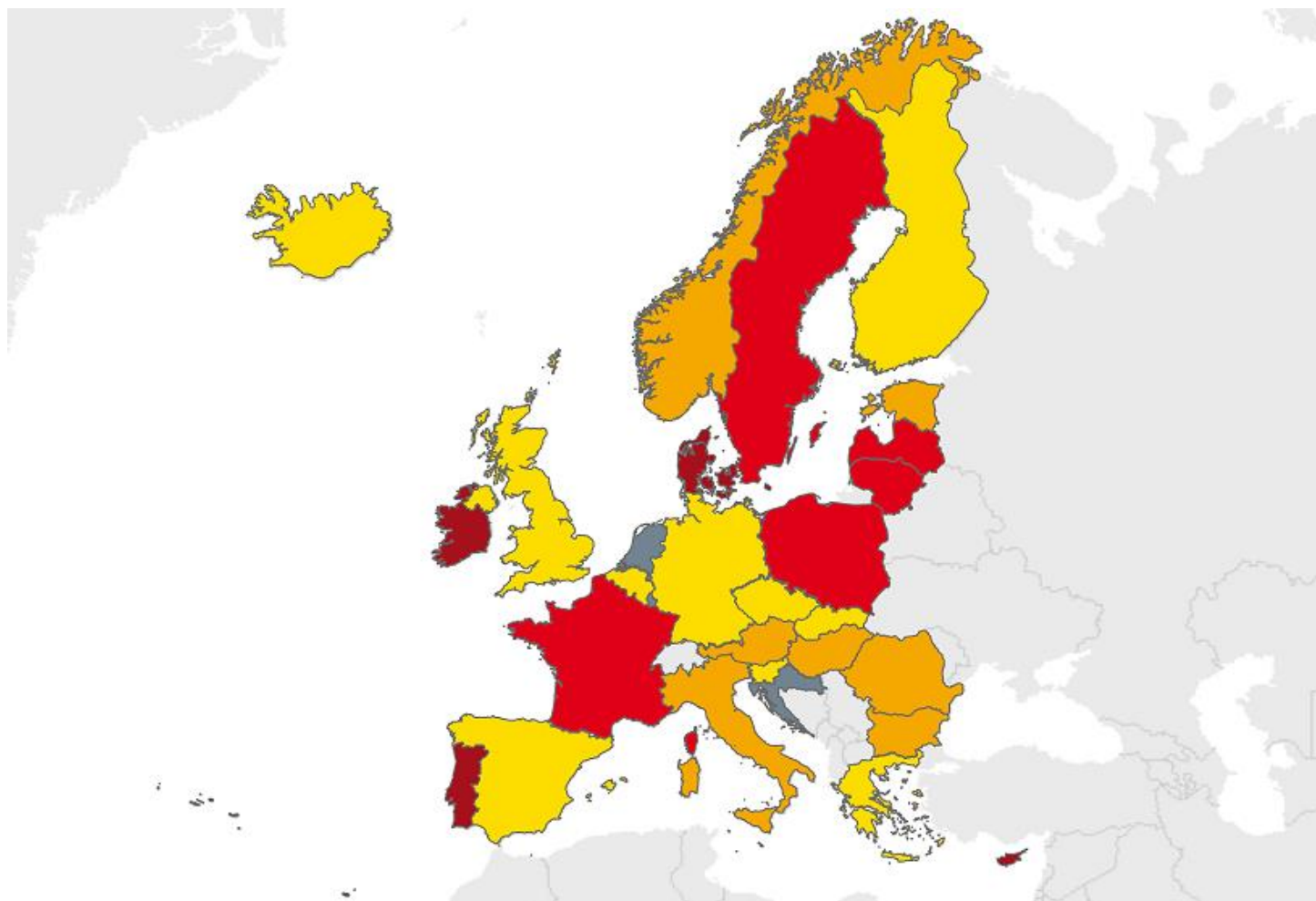
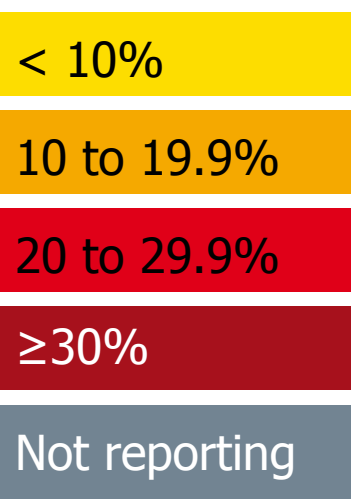
Figure 12:
Percentage of
previously treated
pulmonary TB
cases with MDR TB
by country,
EU/EEA, 2013



Extensively drug-resistant TB (XDR TB)

In 2013, the proportion of extensively drug-resistant TB cases among multidrug-resistant cases in the EU/EEA was 17.5% (range 0–100.0% and 4.2–36.4% for countries reporting more than one case).

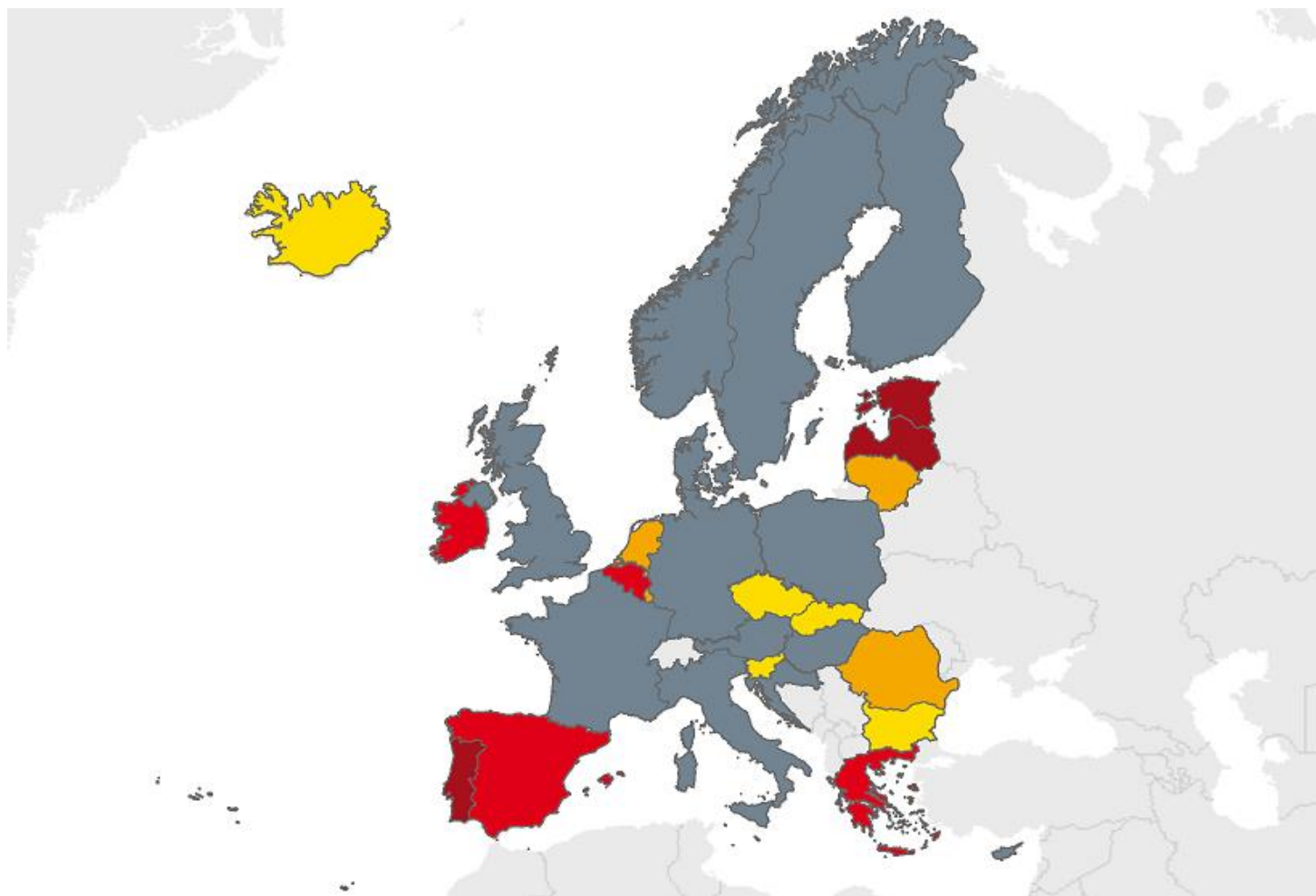
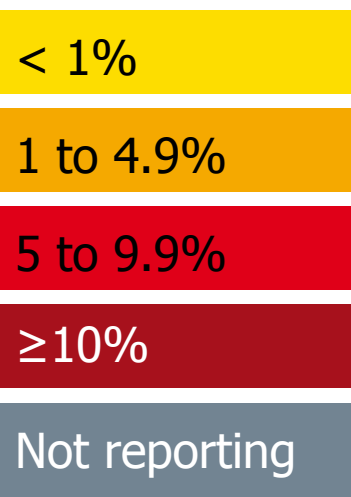
Figure 13:
Percentage of XDR TB cases among MDR TB cases tested for second-line drug susceptibility, by country, EU/EEA, 2013



TB/HIV co-infection

In 2013, the proportion HIV positive among TB cases with known HIV status in EU/EEA was 4.9% (range 0–22.6%).

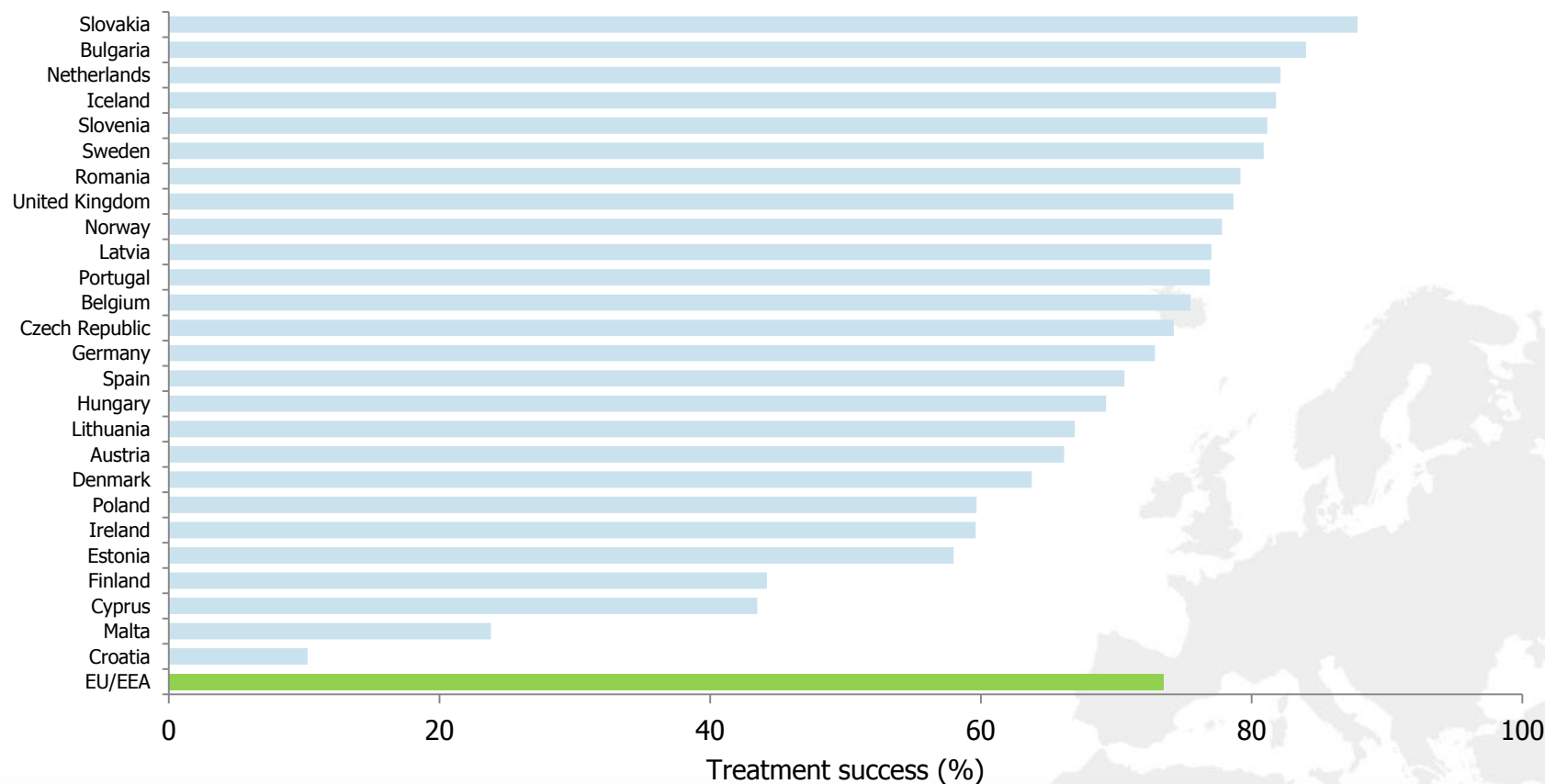
Figure 14:
Percentage of HIV-positive cases among TB cases with known HIV status, by country, EU/EEA, 2013



Treatment success after 12 months in all TB cases*

The treatment success rate for all TB cases notified in 2012 was 73.5% (range: 10.3–87.8%) and has remained stable over the past five years.

Figure 15: Treatment success rate of TB cases notified in 2012, by country, EU/EEA, 2013

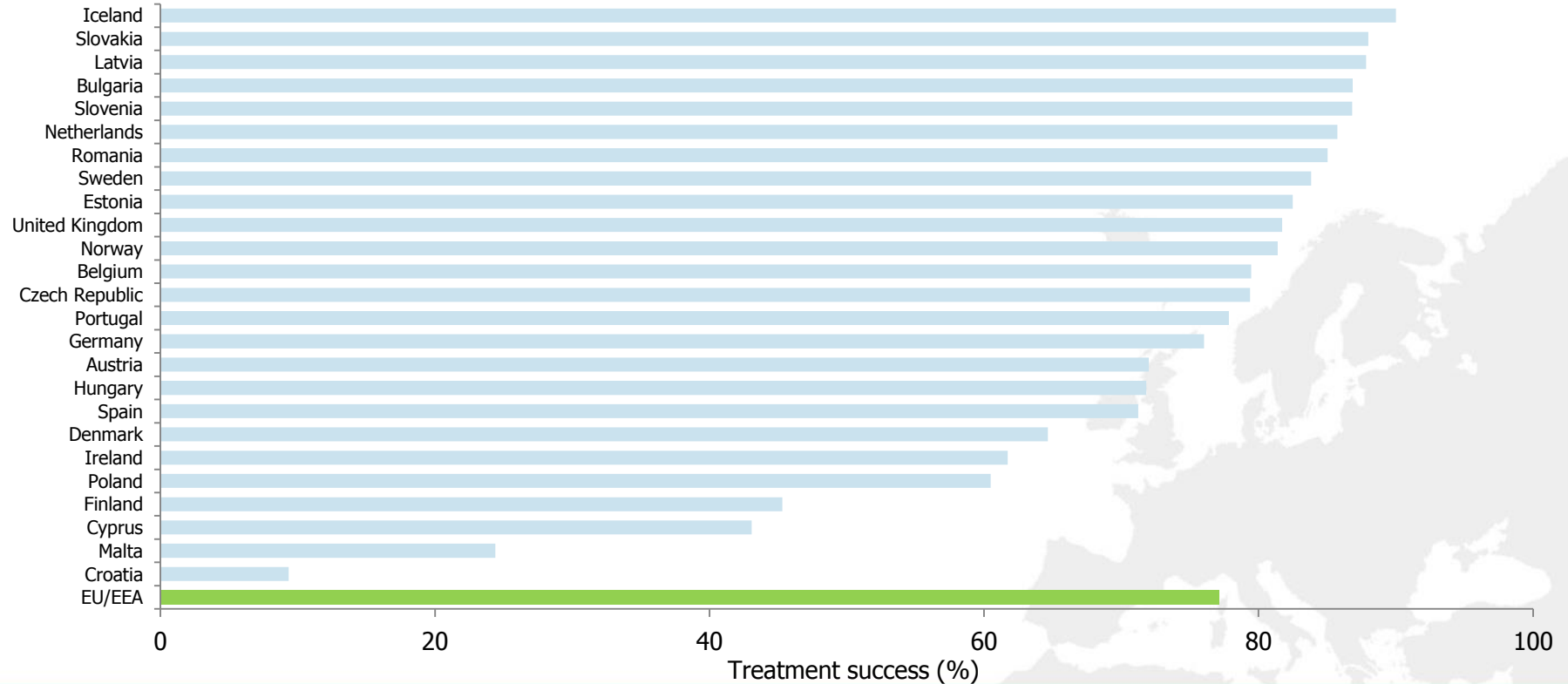


* Four EU/EEA Member States did not report treatment outcome data

Treatment success in new confirmed pulmonary TB cases and relapses started on treatment in 2012*

The treatment success rate for confirmed new pulmonary TB cases and relapses notified in 2012 was 77.1% (range: 9.3–90.0%).

Figure 16: Treatment success rate in confirmed new pulmonary TB cases and relapses started on treatment in 2012, by country, EU/EEA, 2013

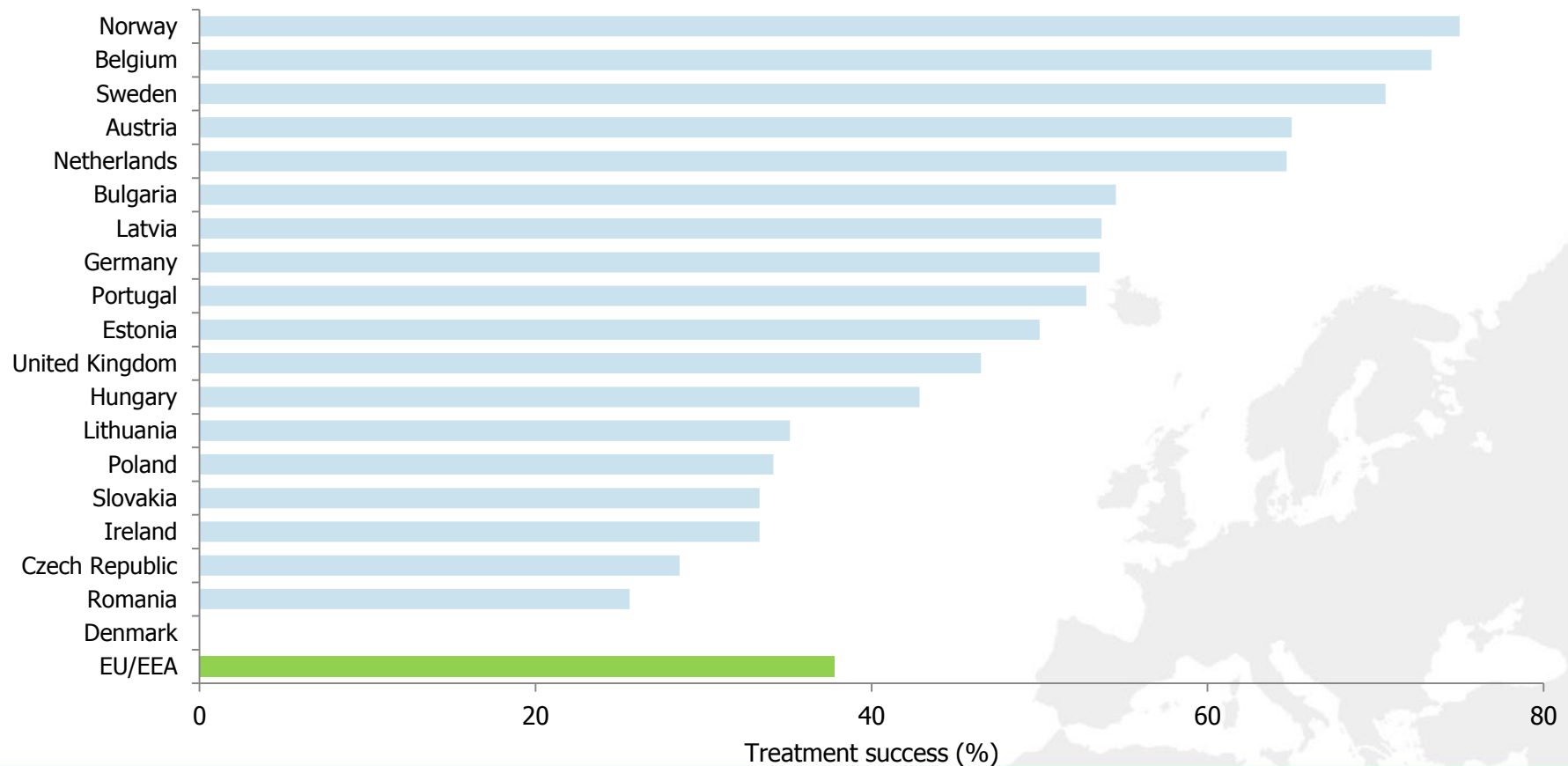


* Cases started on second line treatment are excluded

Treatment success rate in multidrug-resistant TB*

The treatment success rate for all multidrug-resistant TB cases notified in 2011 was 37.8% (range 0–75.0%).

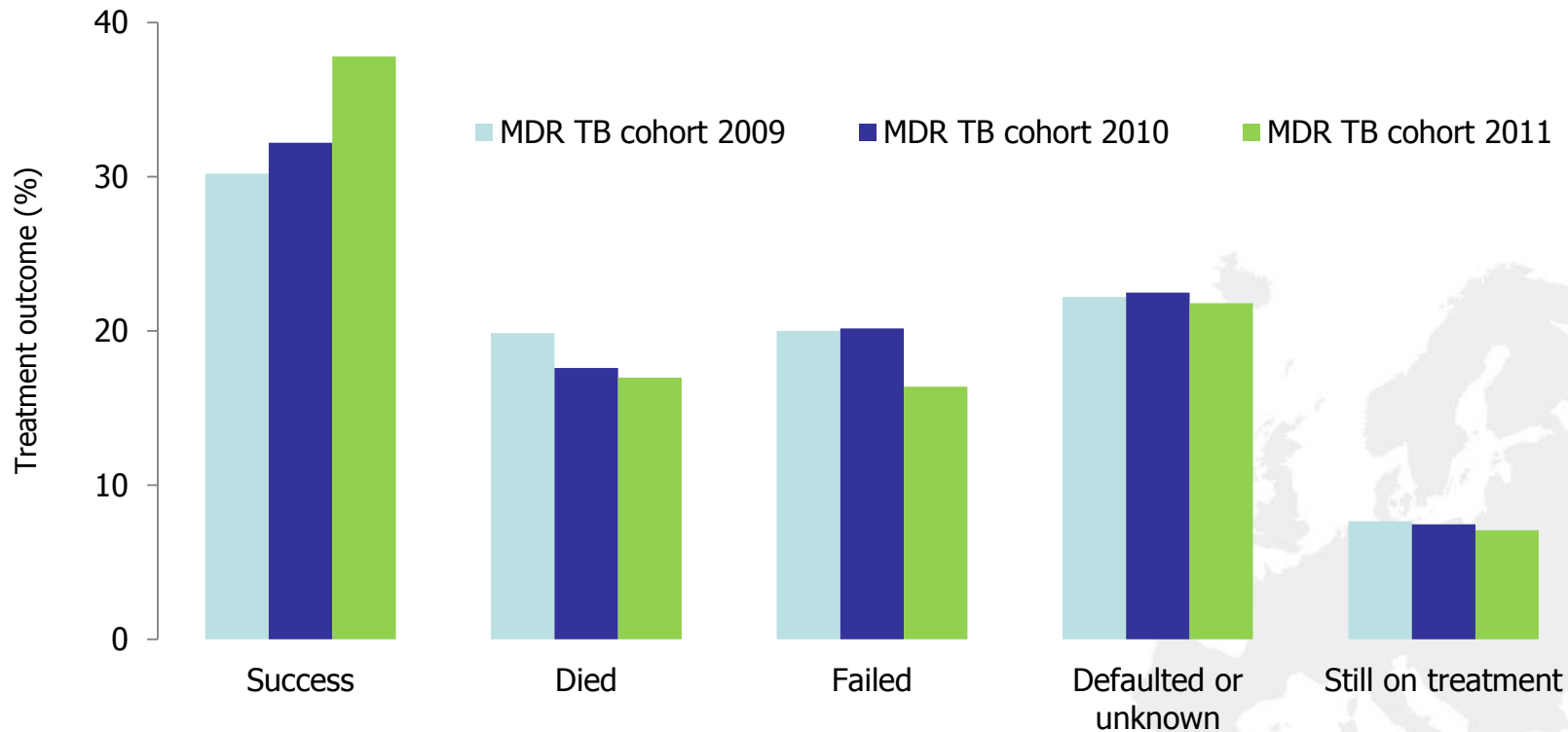
Figure 17: 24-month treatment success rate in multidrug-resistant TB cases notified in 2011, by country, EU/EEA, 2013



Treatment outcome in multidrug-resistant TB over time

The treatment outcomes for multidrug-resistant TB cases improved slightly between the 2009 and 2011 cohort, EU/EEA.

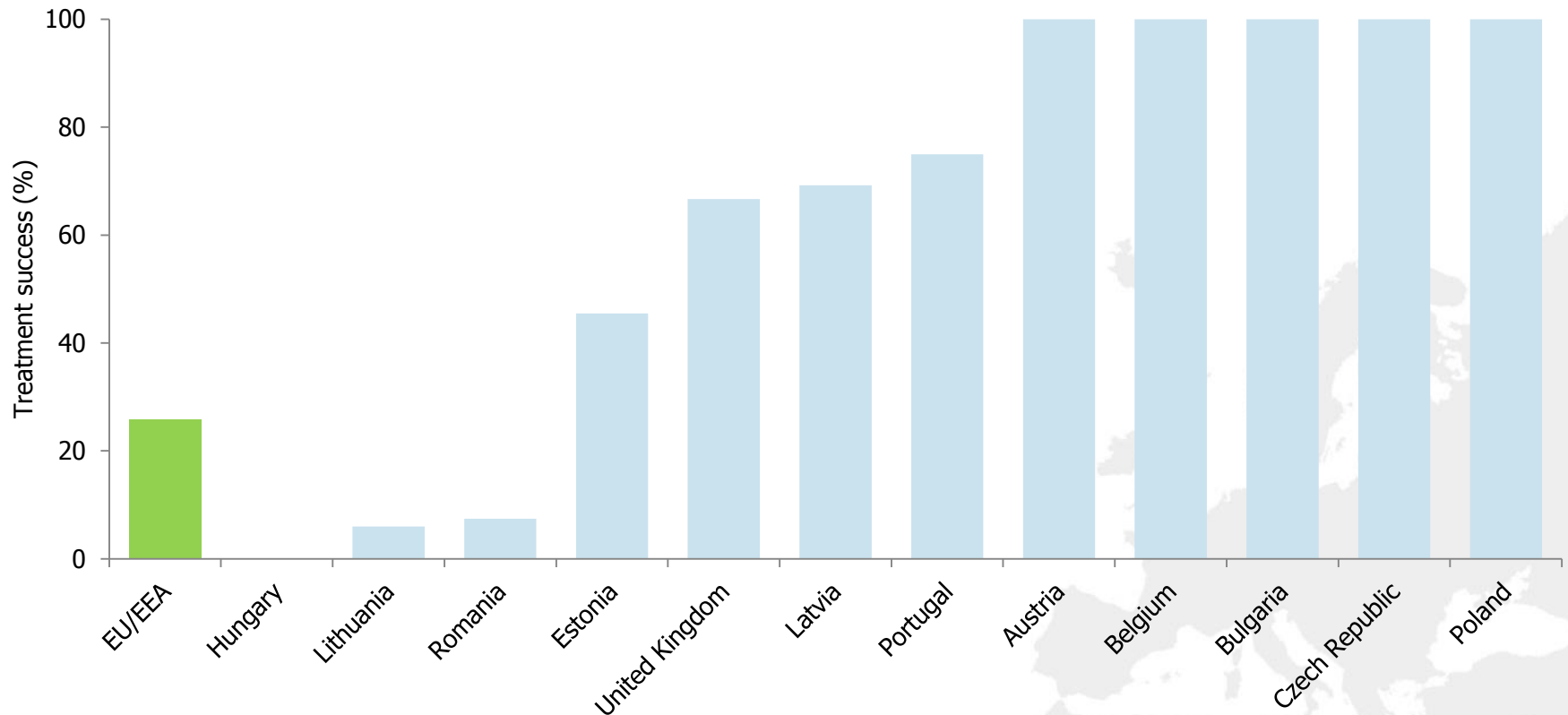
Figure 18: 24-month treatment outcome in multidrug-resistant TB cases notified from 2009 to 2011, by year of initial case reporting, EU/EEA



Treatment success in extensively drug-resistant TB*

The treatment success rate in extensively drug-resistant TB cases notified in 2010 was 25.9% (range 0–100.0%).

Figure 19: 36-month treatment success rate in extensively drug-resistant TB cases notified in 2010, by country, EU/EEA, 2013



* Cyprus, Denmark, Italy, Norway, Slovakia and Slovenia reported zero XDR TB cases in 2010, 12 countries did not report SLD DST results or XDR TB treatment outcome data