

Progress and Challenges with Achieving Universal Vaccine Access and Immunization Coverage

2025 WHO/UNICEF Estimates of National Immunization Coverage

Sources:

- Member State reports to WHO and UNICEF up to 21 June 2026
- World Bank. (2026, July 1). World Bank country classifications by income level for 2025–2026. Retrieved from <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>
- United Nations, Population Division, 2024 revision

Estimates as of 15 July 2026



World Health
Organization



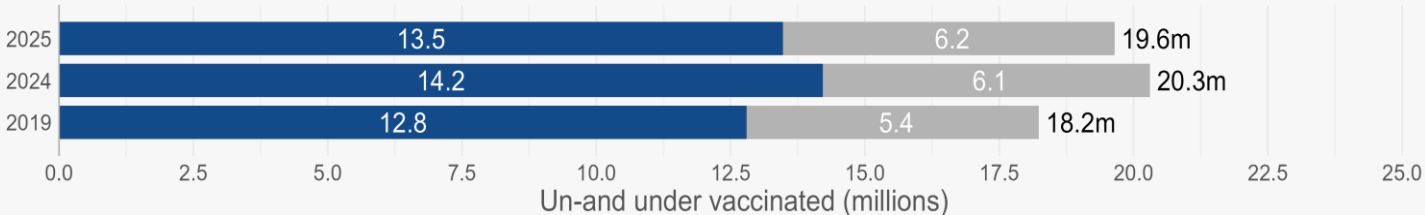
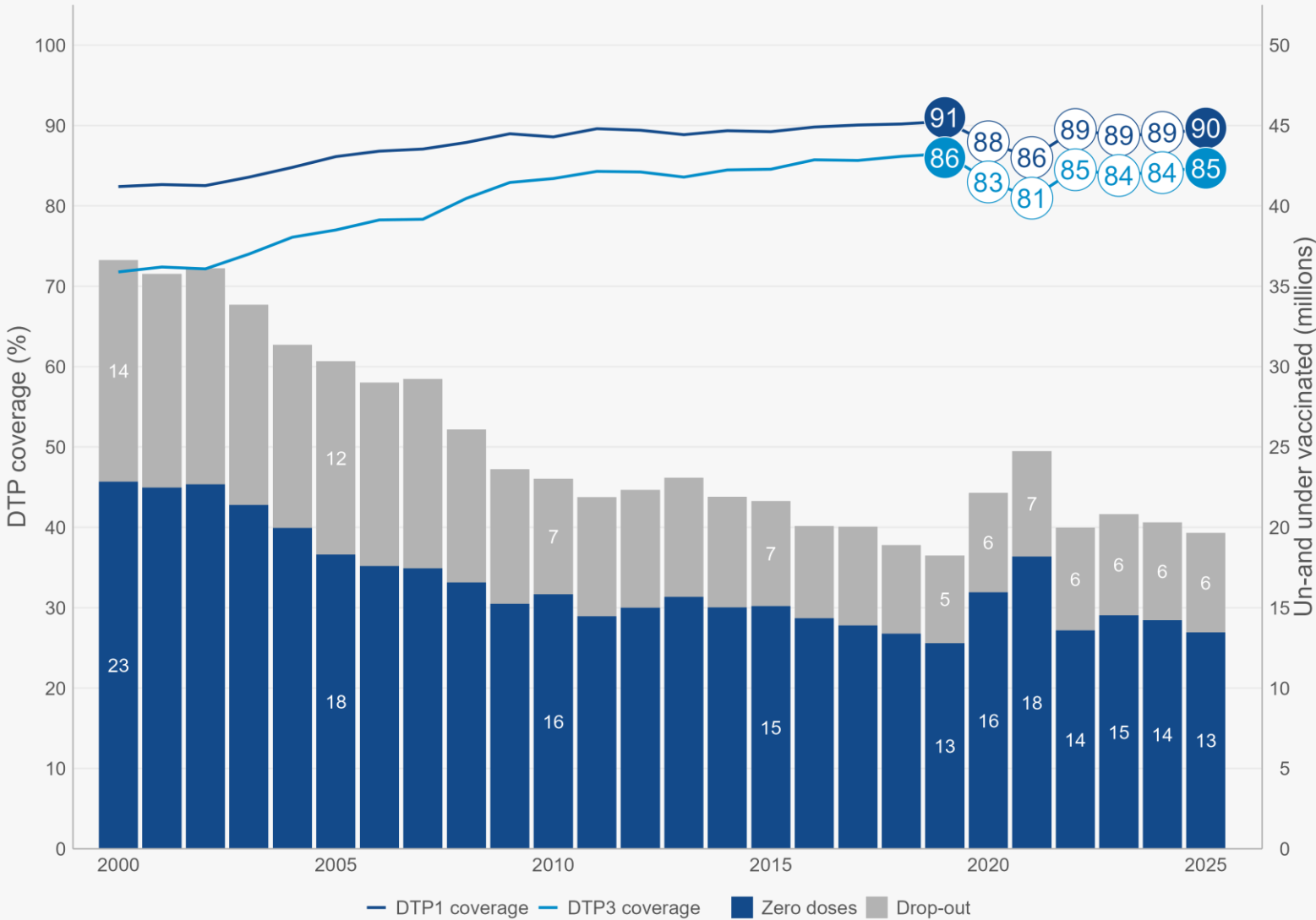
2025 DTP* coverage remains below the 2019 baseline

In 2025 programmes slightly improved the DTP coverage vs. 2024, but are still below 2019 levels, which is the baseline for Immunization Agenda 2030 targets.

There are 674,000 more "Zero Dose Children" now than in 2019, but 745,000 fewer than in 2024.

The majority (69%) of children not fully vaccinated with a DTP-containing vaccine were "Zero-Dose", i.e. never reached by routine immunization at all. Nearly a third (31%) of those not fully DTP vaccinated had "dropped out", i.e. started but did not finish 3-doses, so were known to the programme.

**DTP: a vaccine containing diphtheria, tetanus and pertussis antigens*



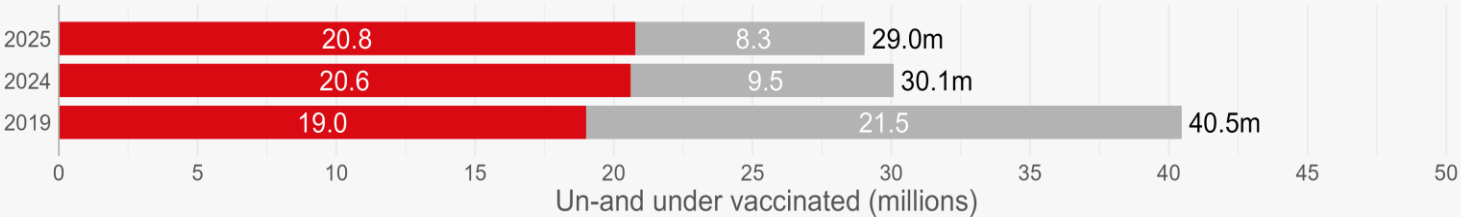
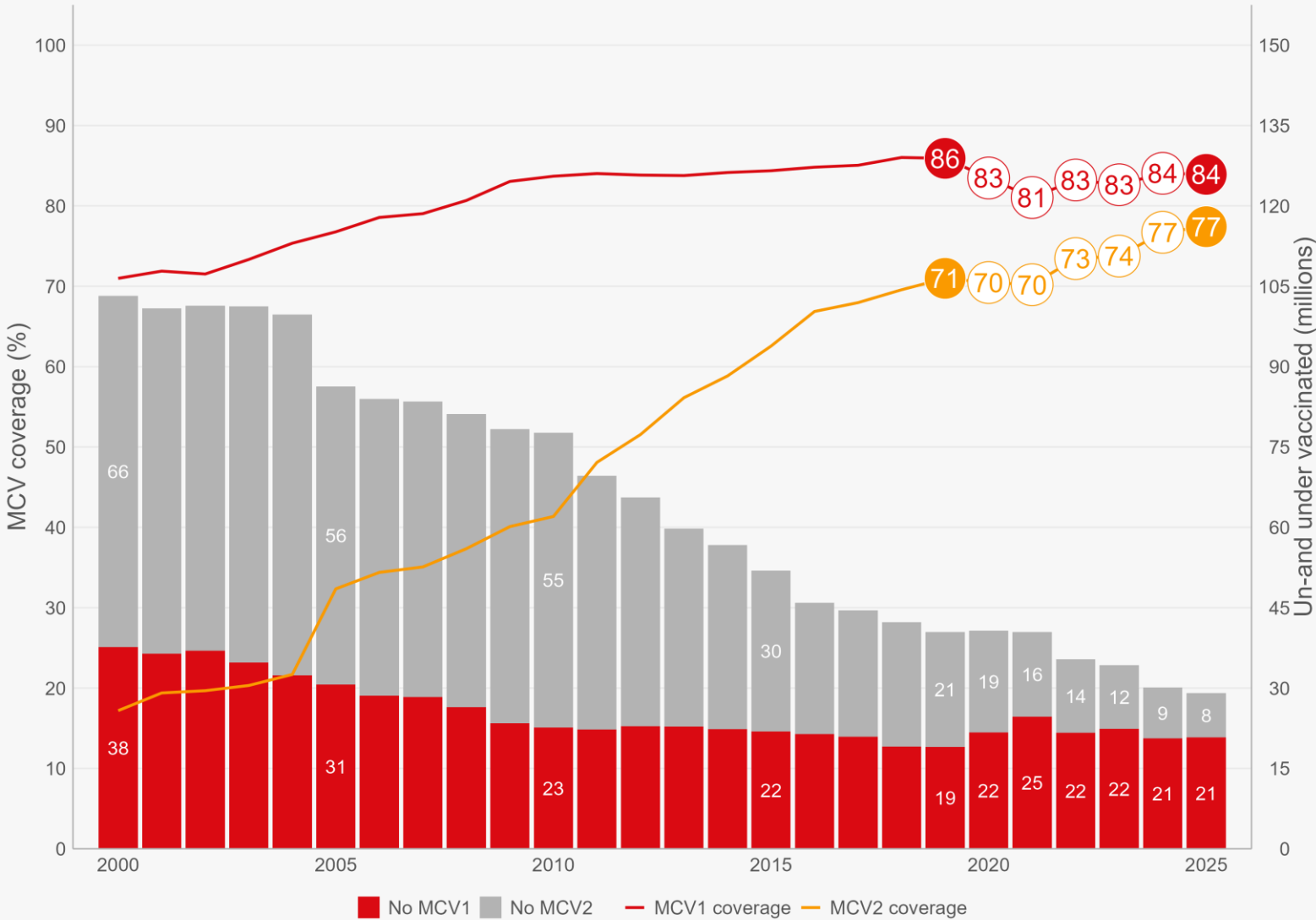
2025 MCV* coverage also remains below the 2019 baseline

Measles vaccination with at least one dose is also struggling to regain its 2019 level. There are still 1.8Mn more children unvaccinated for measles than in 2019, 173,000 more than in 2024.

Coverage with the 2nd dose of measles vaccine keeps improving as countries that introduced this dose recently are strengthening their 2nd year-of-life platform.

2 countries have yet to introduce the 2nd dose in the national schedule: The Central African Republic and Gabon.

*MCV: a vaccine containing measles antigens, like MR or MMR.



2025 HPV* immunization coverage continues to improve, albeit at a slower pace

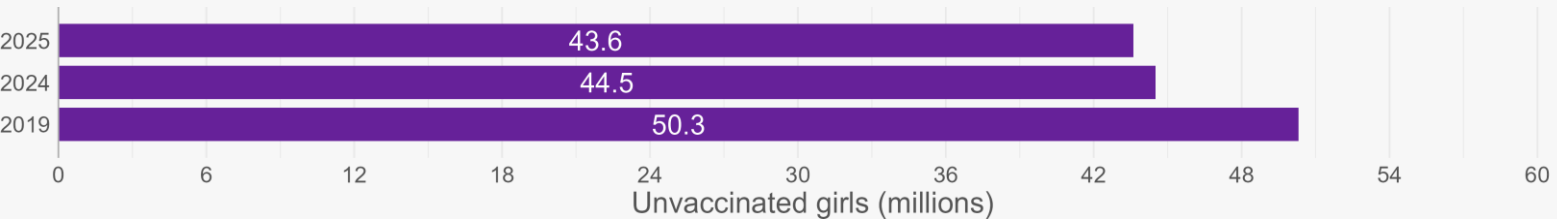
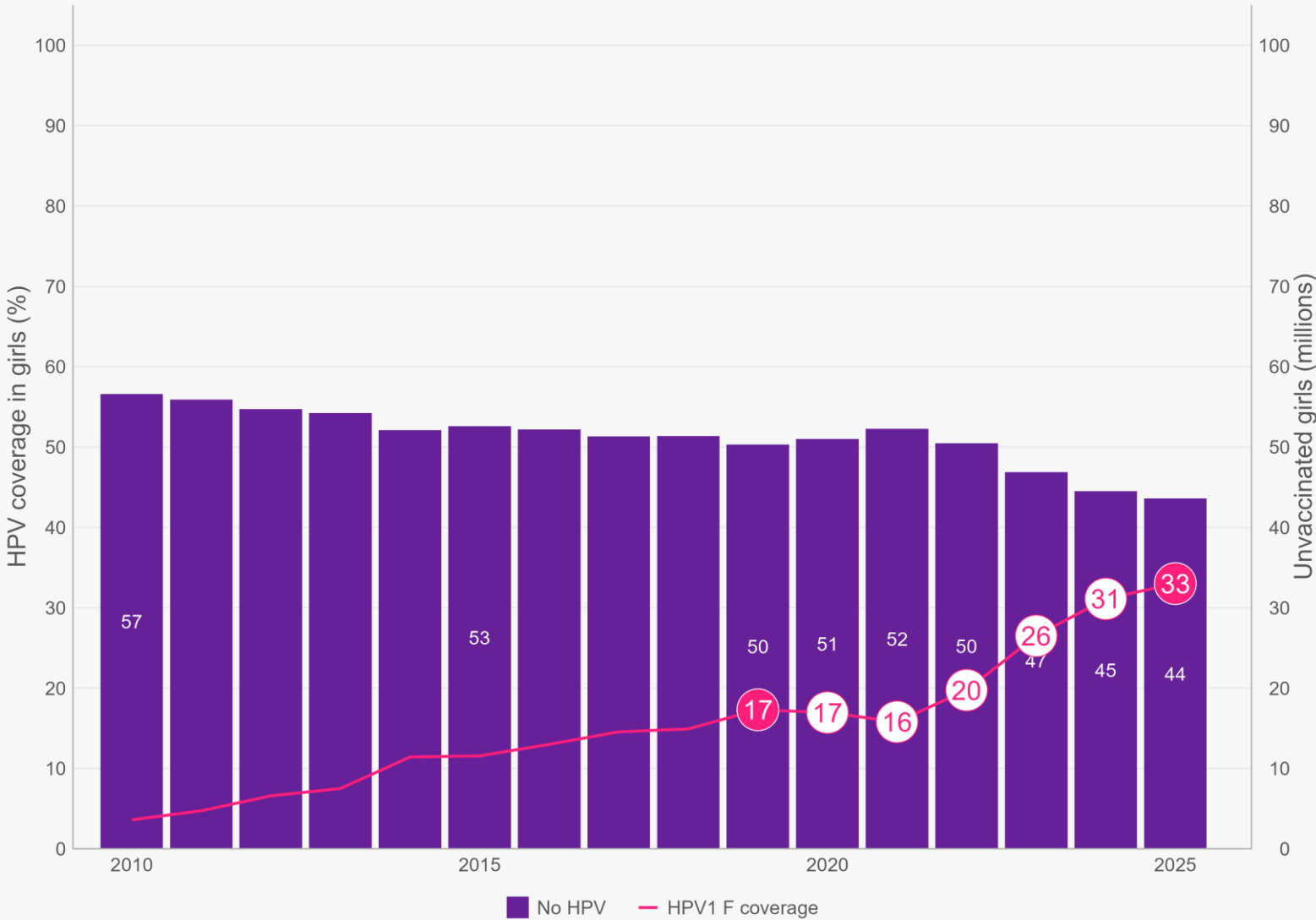
Globally, 33% of the 66.1Mn girls eligible for HPV vaccination worldwide (22.5Mn) received at least one dose of HPV vaccine in 2025, as 15 new countries implemented programmes for this vaccine.

43.6Mn girls still did not receive the vaccine.

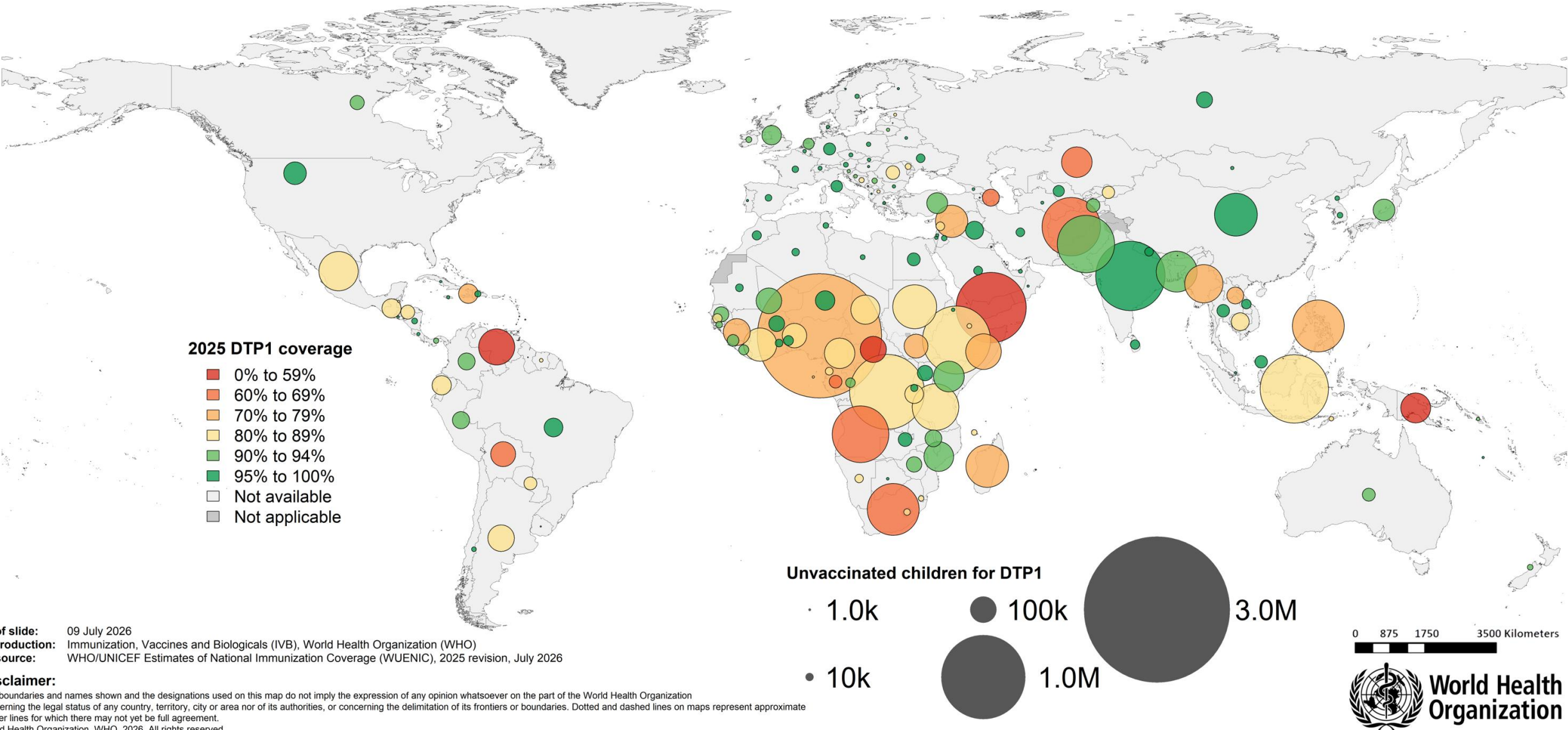
- 22.8Mn (35% of the global cohort) live in a country where the vaccine is not part of the immunization programme.
- 20.8Mn (32% of the global cohort) were missed by the HPV programme in their country



*HPV: Human Papilloma Virus vaccine. The coverage shown here refers to girls 9-14yo receiving at least one dose through routine HPV vaccination



DTP1 coverage and number of zero-dose children by country, 2025



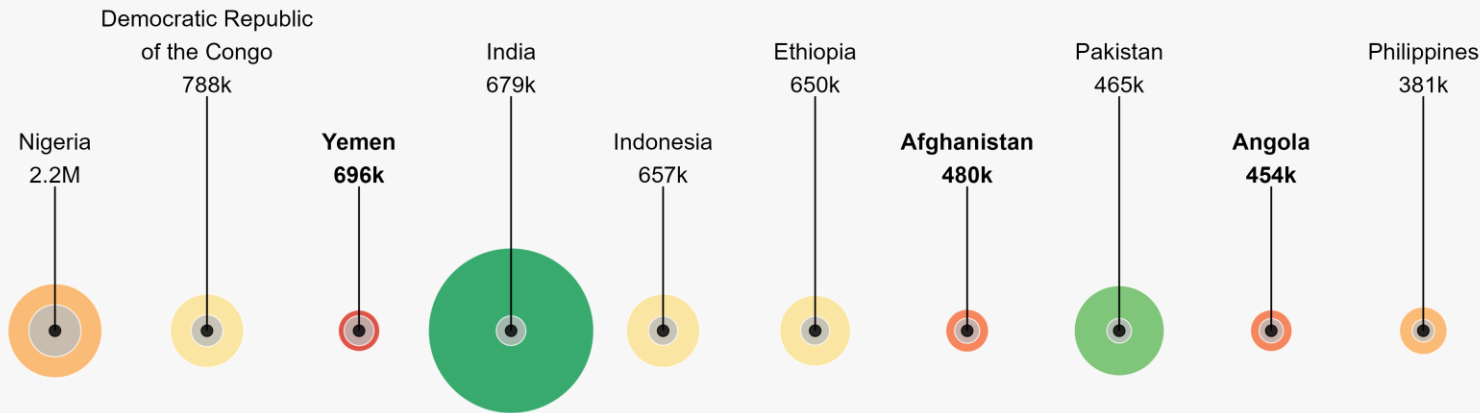
Top 10 countries with the most unvaccinated children and lowest DTP1 coverage in 2025

Nigeria is the country with the largest number of Zero-Dose Children in 2025, driven by a combination of low coverage and a large birth cohort.

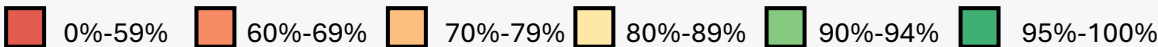
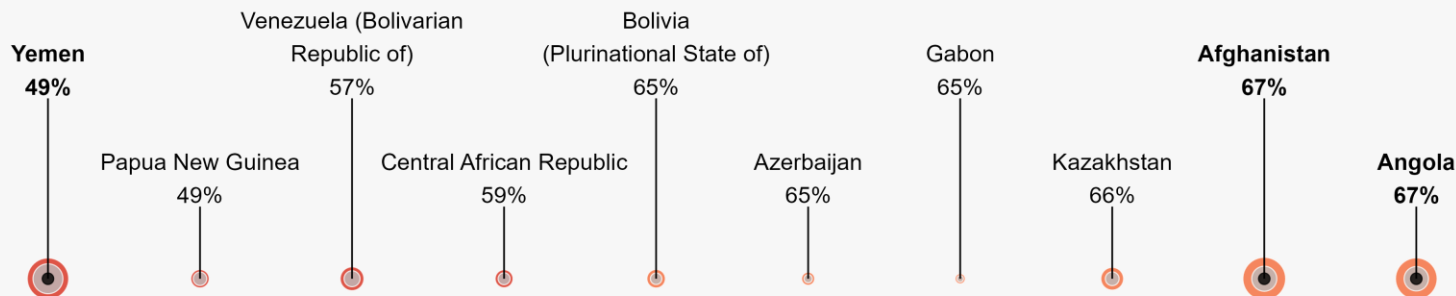
Yemen, where conflict has severely weakened health systems, has the world's lowest DTP1 coverage and the third-largest cohort of completely unvaccinated children, in spite of a modest size birth cohort (21st in the world).



No DTP1 (zero dose)



Countries with lowest DTP1 coverage



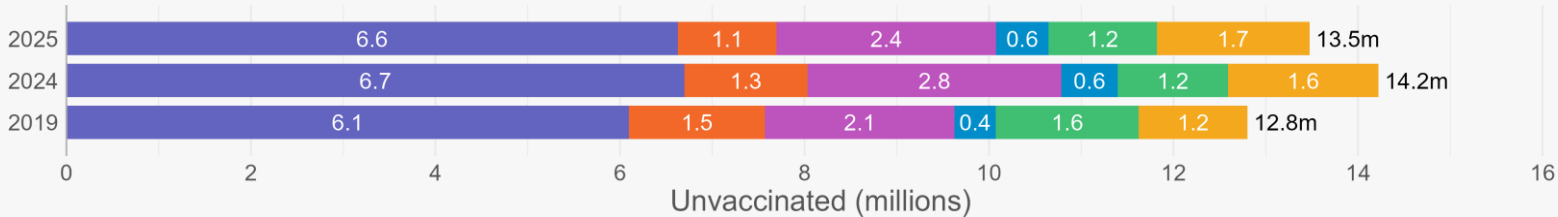
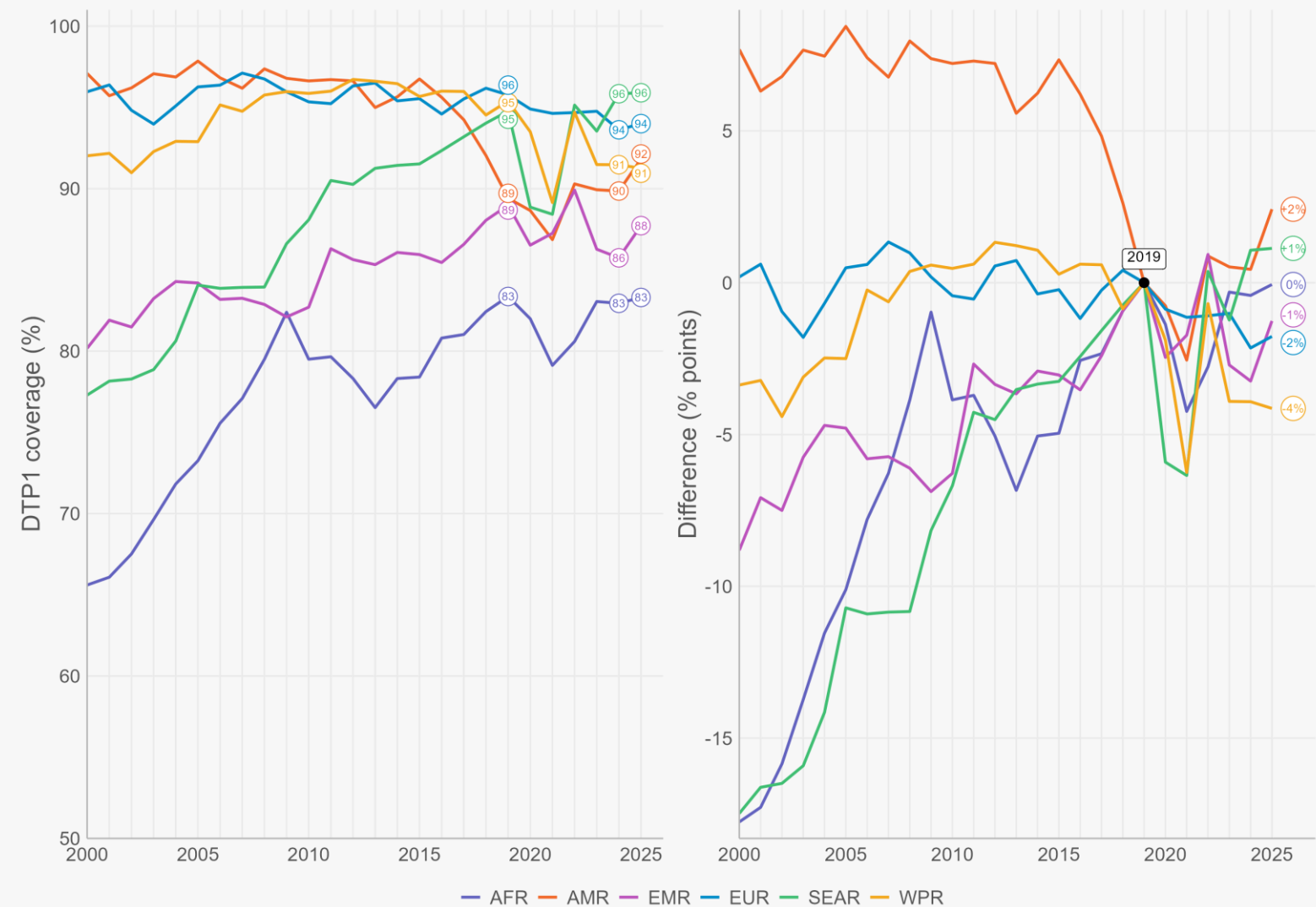
Countries in bold are in the top 10 for both the highest number of unvaccinated children and lowest coverage. When two countries have the same coverage, the country with highest number of unvaccinated children is ranked first.



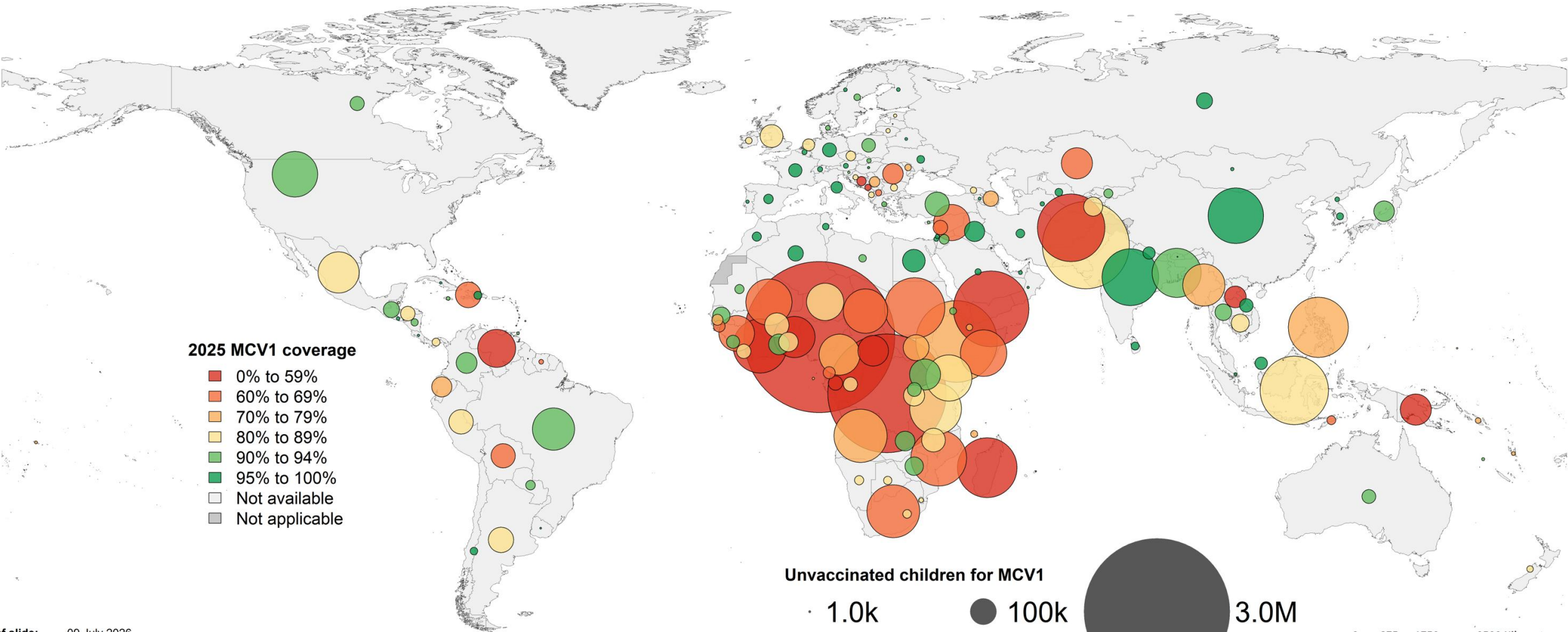
Progress with DTP1 coverage diverges by region

The longer-term trends in DTP1 coverage diverges somewhat by region.

- SEAR and AMR have improved coverage above the 2019 baseline.
- SEAR is now the best performing region, for the first time ever.
- AFR, EMR, EUR, and WPR are below their 2019 baseline
- EUR, WPR, and possibly AMR seem to be establishing a long-running trend (10+years) of backsliding



MCV1 coverage and number of unvaccinated children by country, 2025



Date of slide: 09 July 2026
Map production: Immunization, Vaccines and Biologicals (IVB), World Health Organization (WHO)
Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC), 2025 revision, July 2026

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Top 10 countries with the most unvaccinated children and lowest MCV1 coverage in 2025

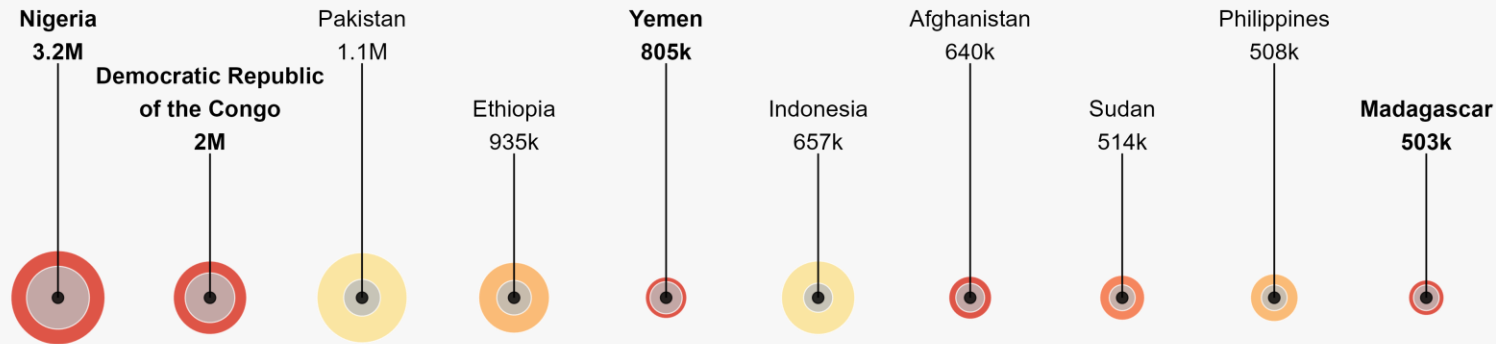
Nigeria also has the largest number of children unvaccinated against measles in 2025, and the 10th lowest MCV1 coverage.

India no longer features in the list of countries with most measles unvaccinated children, for the first time since WUENIC estimates were first published in 2001. This underscores the outstanding progress in India's EPI programme over the last decade.

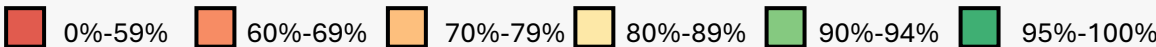
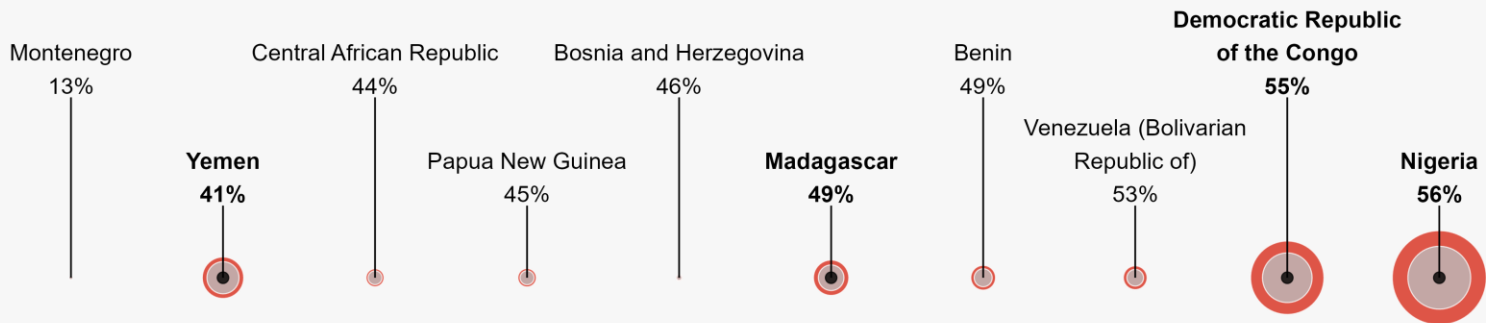
The list of countries with the lowest measles coverage includes countries with fragile settings as well as several stable countries in Europe and elsewhere with significant health system issues.



No measles vaccine



Countries with lowest MCV1 coverage

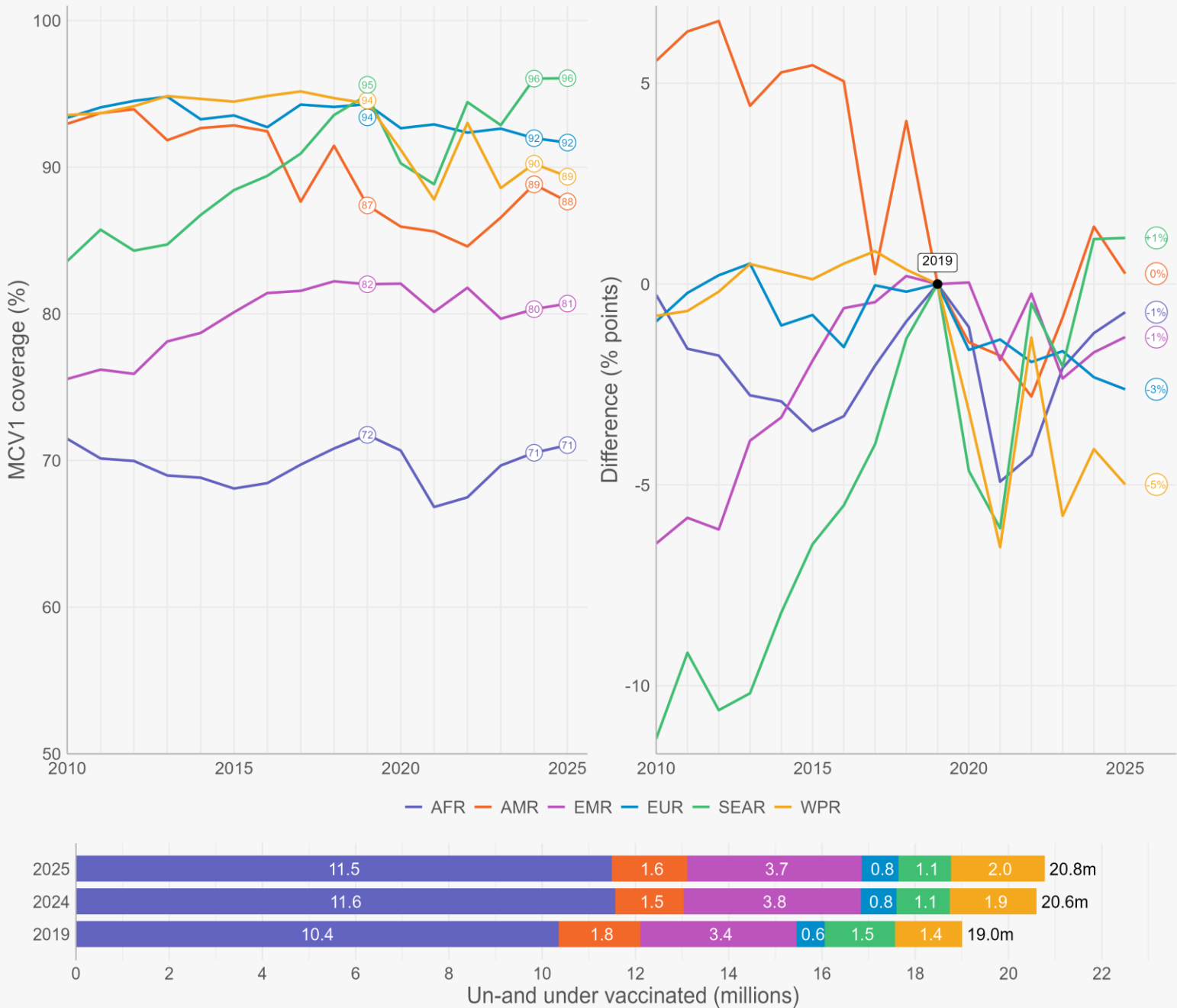


Countries in bold are in the top 10 for both the highest number of unvaccinated children and lowest coverage. When two countries have the same coverage, the country with highest number of unvaccinated children is ranked first.



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MCV1 coverage distribution by regions shows backsliding and rising inequity in previously well performing regions

This slide shows the density distribution of countries according to MCV1 coverage, by region for 5 points in time.

- AFR shows a gradual improvement as there are fewer countries with very low coverage, with ever more countries at the top (high coverage) of each distribution
- AMR and especially EUR show some backsliding and rising inequity as more countries move from very high to middling or very low coverage
- SEAR is increasingly bifurcated, with mostly very well performing countries as well as some relative lagging countries.
- WPR and EMR show a more nuanced picture where the lowest bound is not worsening, but the belly of each distribution is nevertheless thickening, indicating more middling countries.



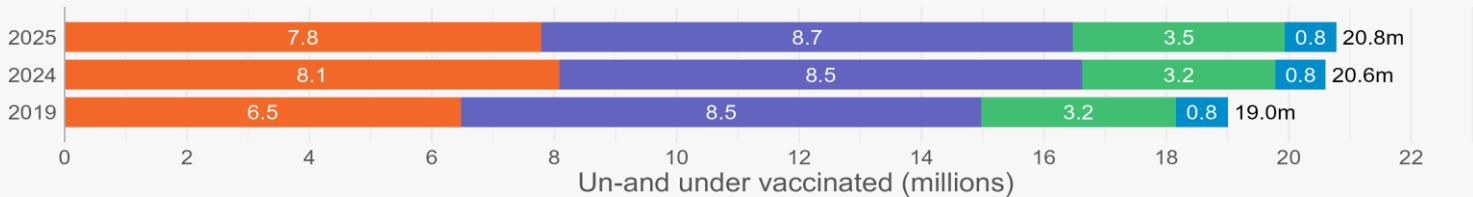
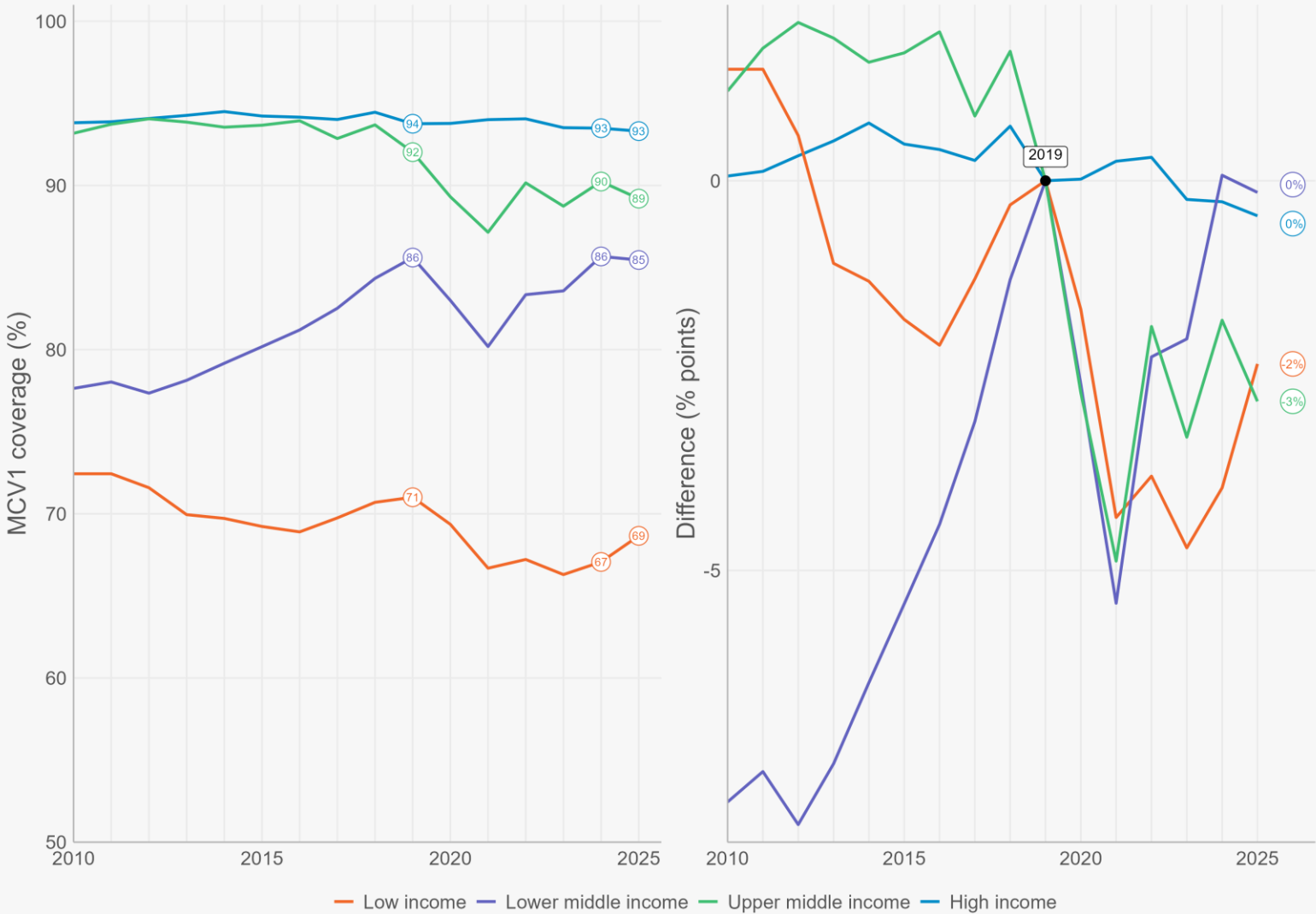
Progress with MCV1 coverage diverges by WB income status*

Low-Income countries were hardest hit by the pandemic and its aftermath but are now reporting clear signs of recovery. This recovery is tentative as in many countries it still needs to be confirmed by household surveys.

Lower middle-income countries have as a group recovered to the 2019 baseline.

However, high-income countries and especially upper-middle-income countries show some backsliding since 2019.

* Countries without a World Bank classification are excluded (Cook Island, Niue)

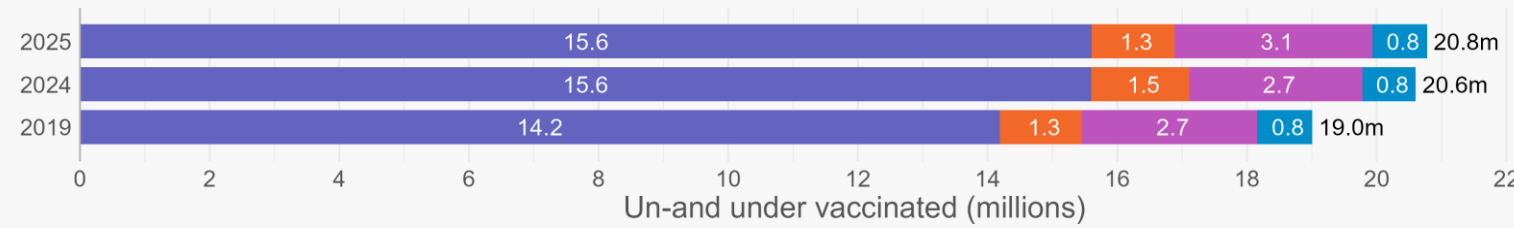
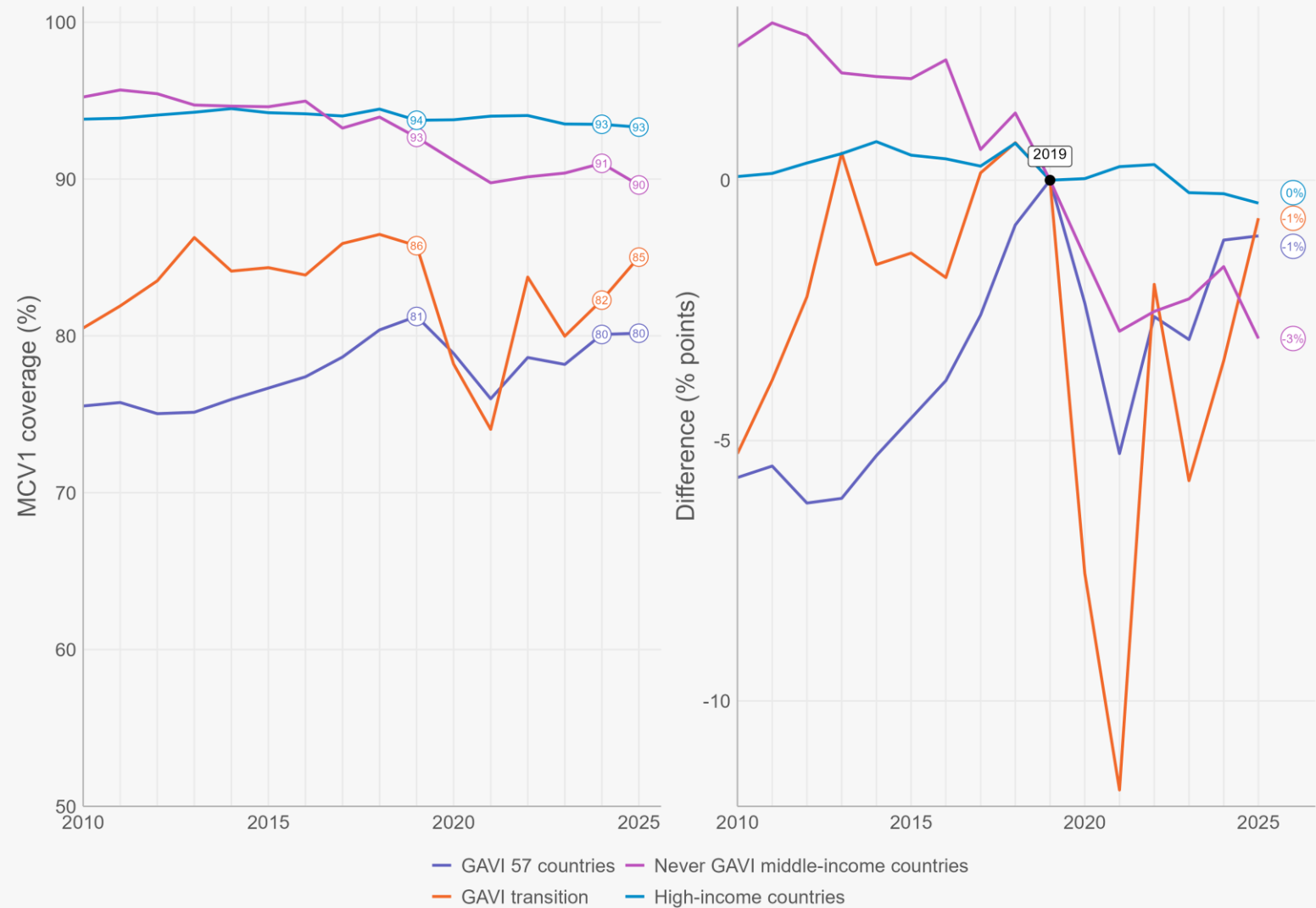


Progress with MCV1 coverage diverges by Gavi eligibility status

All low-income and some middle-income countries are eligible for Gavi funding. As a group, these countries have improved coverage meaningfully over the last few years and are just shy of their 2019 level.

Countries that transitioned out of Gavi support initially experienced large drops but are now showing encouraging trends.

Countries that were never eligible for Gavi support are clearly backsliding, like the high-income country group.



Progress and backsliding on Zero-Dose Children since 2024

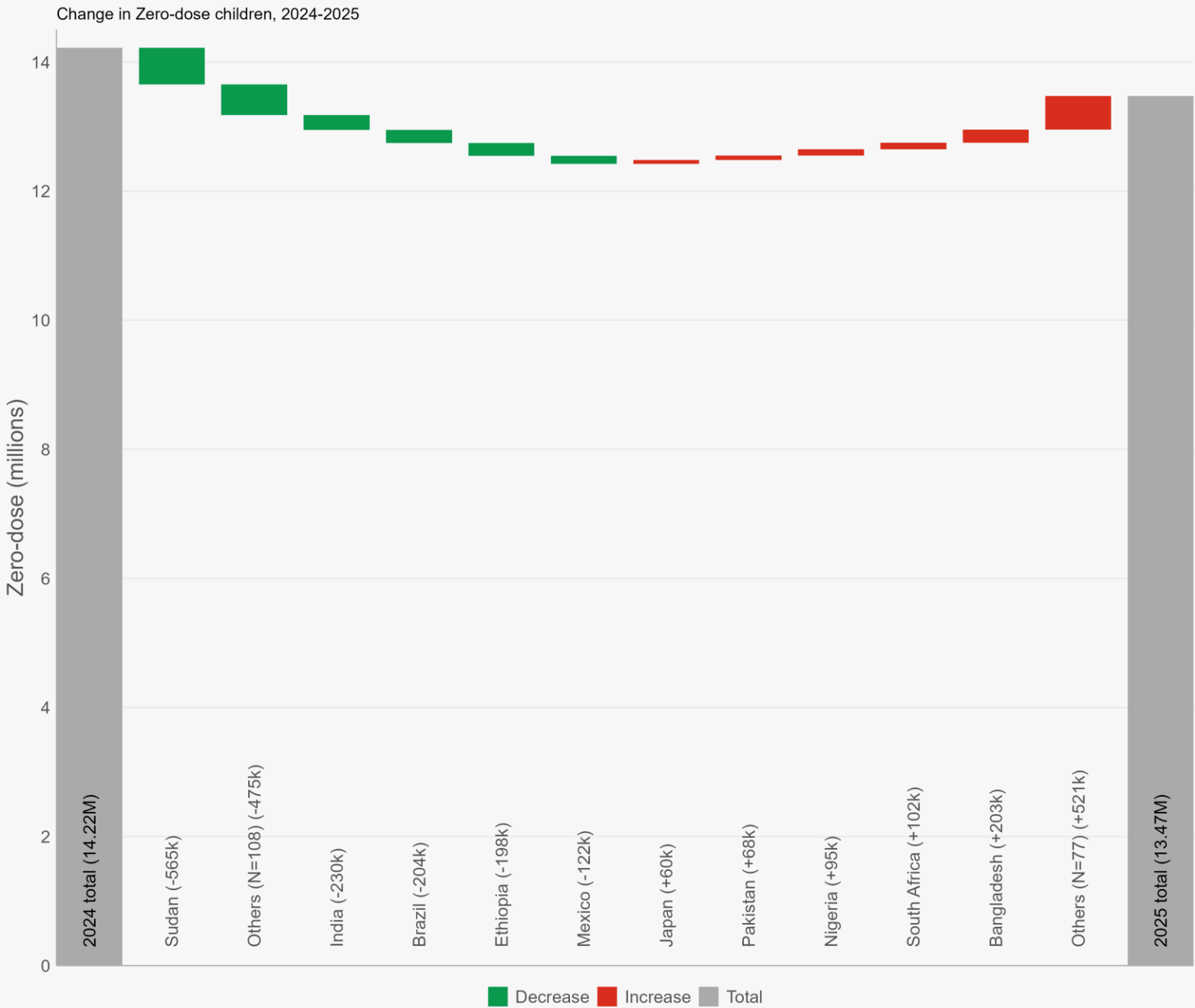
The overall progress in reducing the number of Zero-Dose Children results from both strengthened and weakened programme performance.

Sudan reported a recovery in its programme in 2025, even while violence continues.

India, Brazil, Ethiopia, and Mexico all strengthened programme access last year.

Bangladesh, South Africa, Nigeria, Pakistan, and Japan all saw an increase in the number of Zero-Dose Children in 2025.

Other countries saw smaller changes, often simply driven by increasing or decreasing birth cohorts.



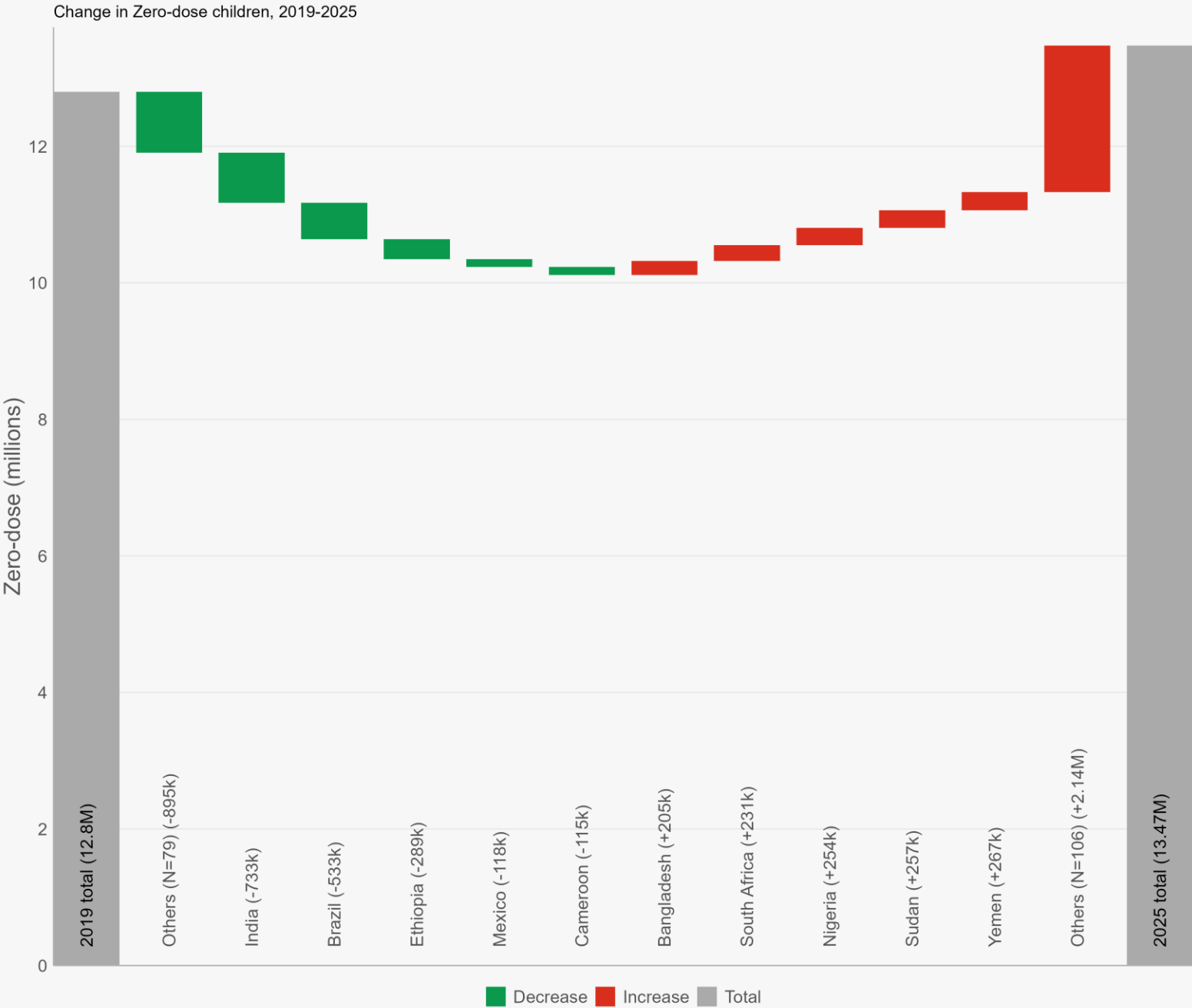
Progress and backsliding on Zero-Dose Children since 2019

Since 2019, the baseline year for the immunization agenda, IA2030, many countries experienced multiple challenges related to the Covid-19 pandemic, diminished external funding, conflict and instability.

India, Brazil, Ethiopia, Mexico and Cameroon all made notable progress.

On the other hand, Yemen, Sudan, Nigeria, South Africa, and Bangladesh saw an increase in the number of Zero-Dose Children since 2019.

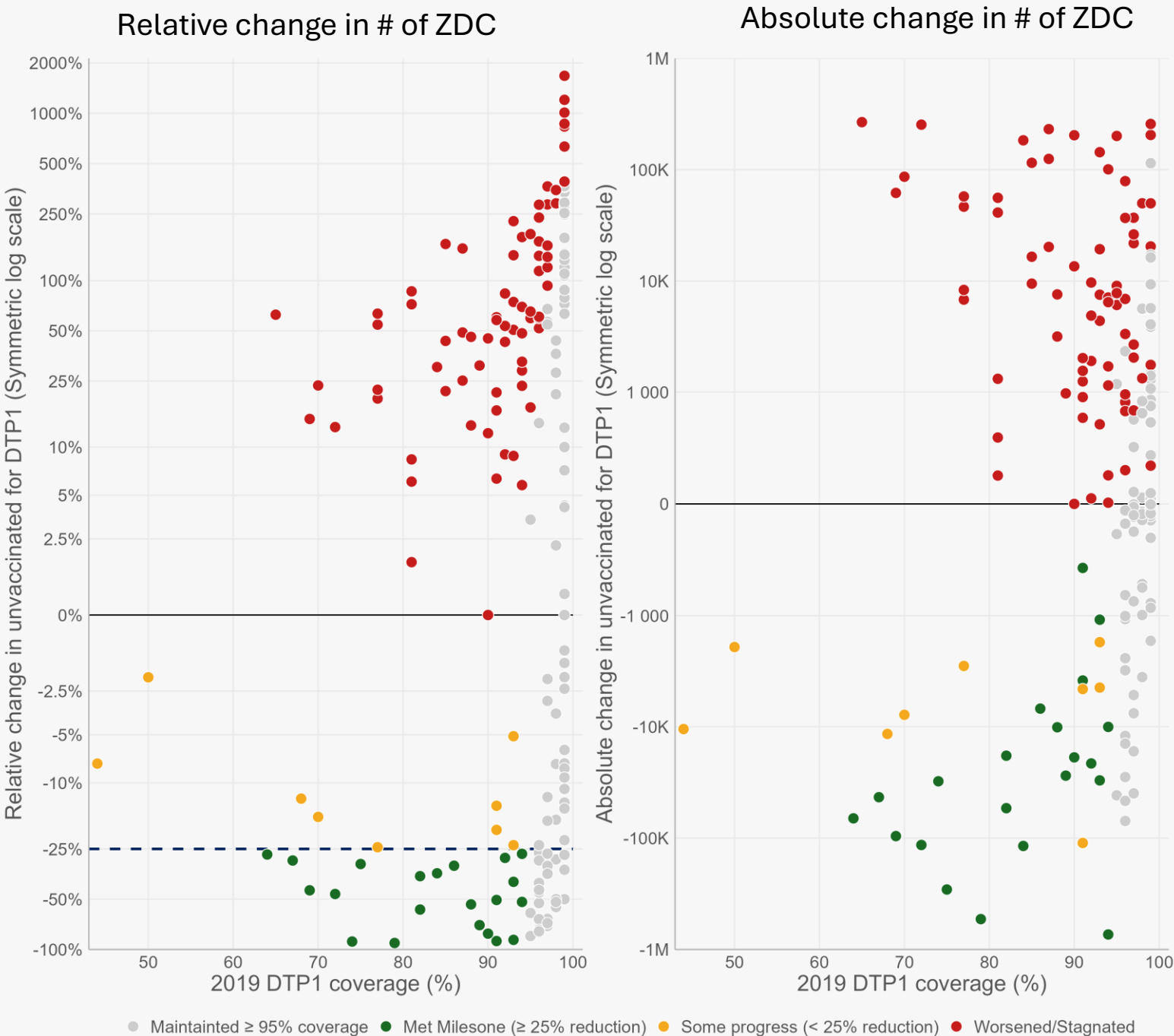
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62% of the world's countries either maintained high coverage or made progress, while 38% added ZDC between 2019 and 2025

By endorsing the Immunization Agenda 2030, countries agreed to target a reduction in the number of Zero-Dose Children by 50% by 2030. Political commitment at national level is critical. This graph shows midterm progress towards those targets by country – rather than in global averages.

- 90 countries maintained high and stable coverage, over 95%
- 21 met the 2025 milestone by reducing the number by 25% or more
- 9 countries made some progress but did not reach the milestone.
- 74 countries had more zero dose children in 2025 than in 2019.



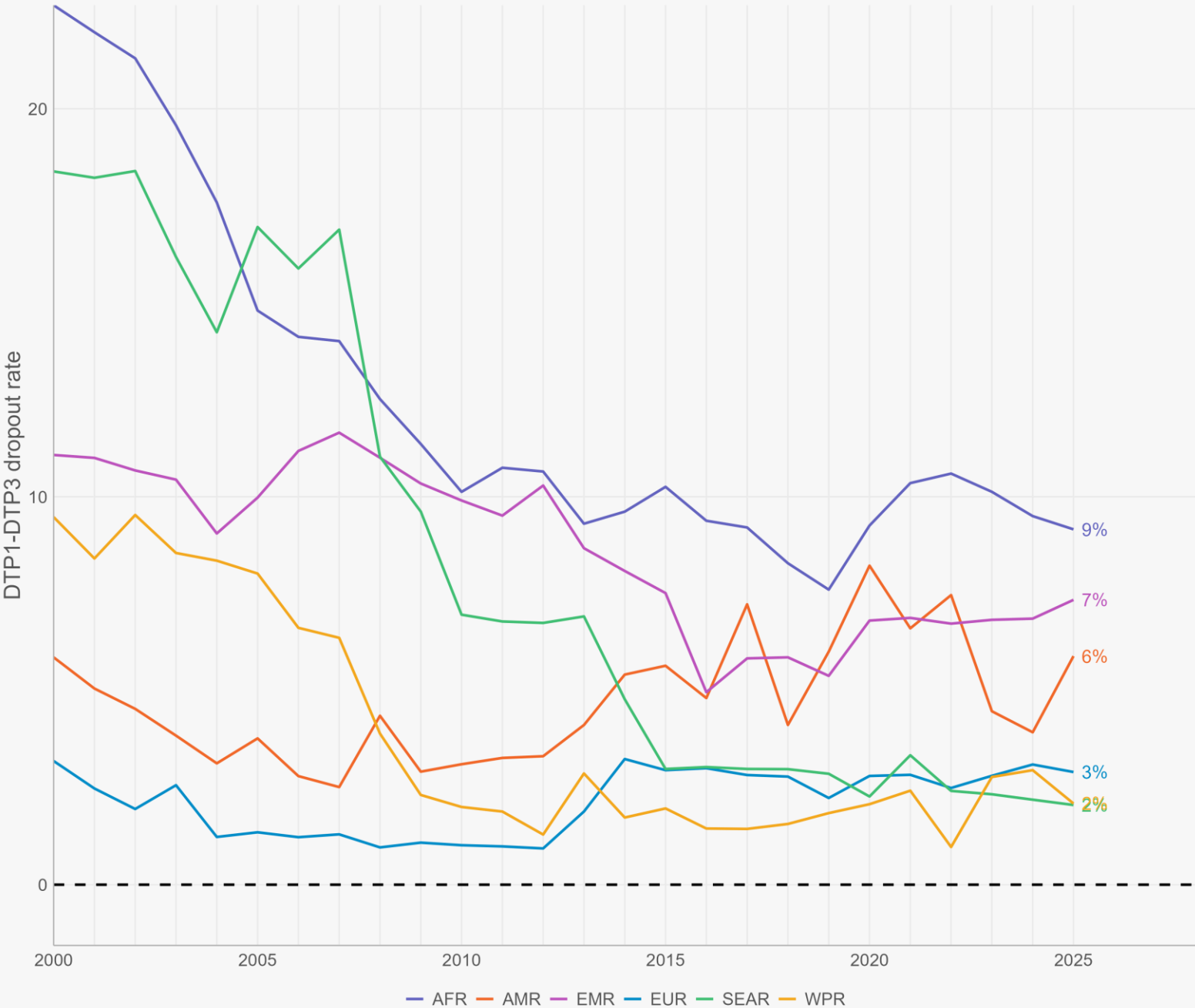
DTP1-DTP3 dropout rates are too high in some regions

It is important that all children are reached (DTP1) and fully vaccinated (DTP3 or MCV1) by the health system.

While access to health is measured by the “zero-dose” indicator, full vaccination is best measured by the drop-out rate (% of children who start but don't complete vaccinations).

The drop-out rate between DTP1 and DTP3 ranges from 2% to 9% by region.

A high drop-out rate points to improvements needed in defaulter tracing, immunization service quality, and community engagement including demand generation.



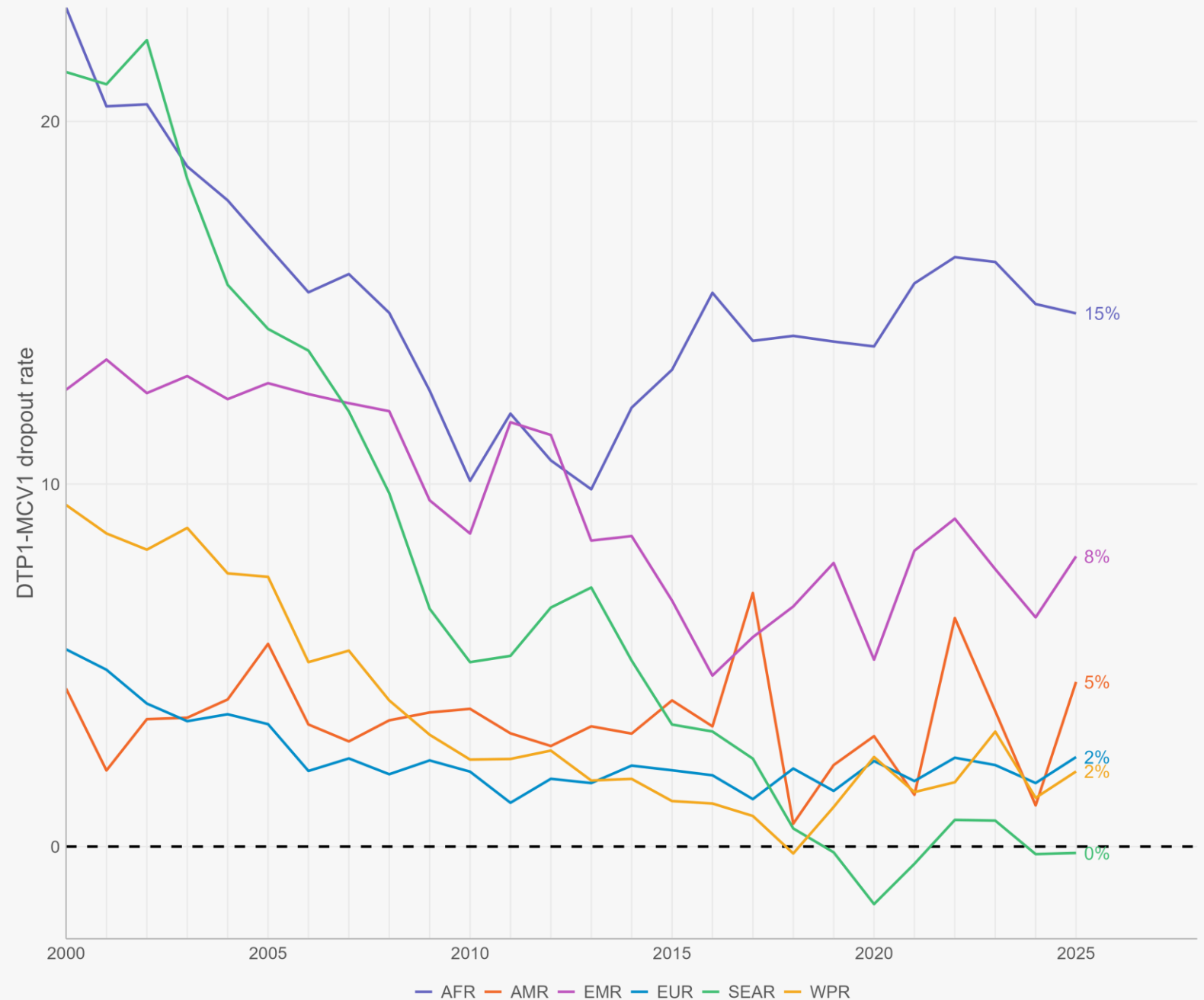
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The drop-out rate between DTP1 and MCV1 ranges from 0% to 15% across regions.

The MCV1 vaccine visit is the same visit where Yellow Fever vaccine, meningitis vaccine, and malaria vaccine is often given, making this dropout issue particularly important.



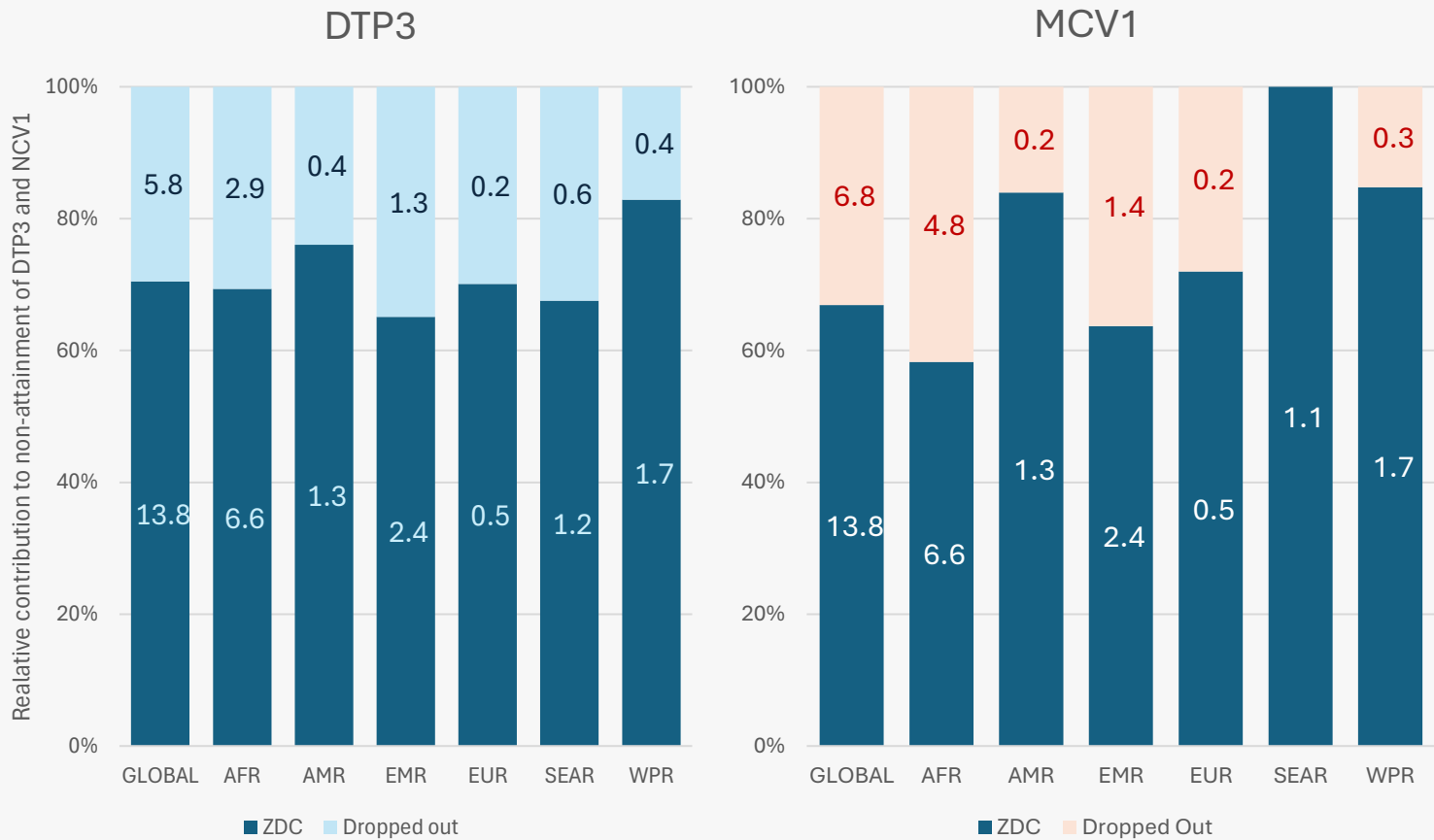
Among children who are not fully vaccinated, some are ZDC while others are known to the system (i.e. dropouts), giving multiple opportunities to protect kids.

70% of those who are not vaccinated with DTP3, and 67% of those missing MCV1 never received any vaccine dose (ZDC).

The remainder of those not fully vaccinated received at least one dose of DTP but dropped out of the programme before completion of DTP3 (30%) and MCV1 (33%). I.e. they are known to the programme but are not receiving core, life-saving vaccines.

The contribution of drop-out to not receiving MCV1 is especially high in AFR (42%) and EMR (36%).

Relative contribution to non-attainment of



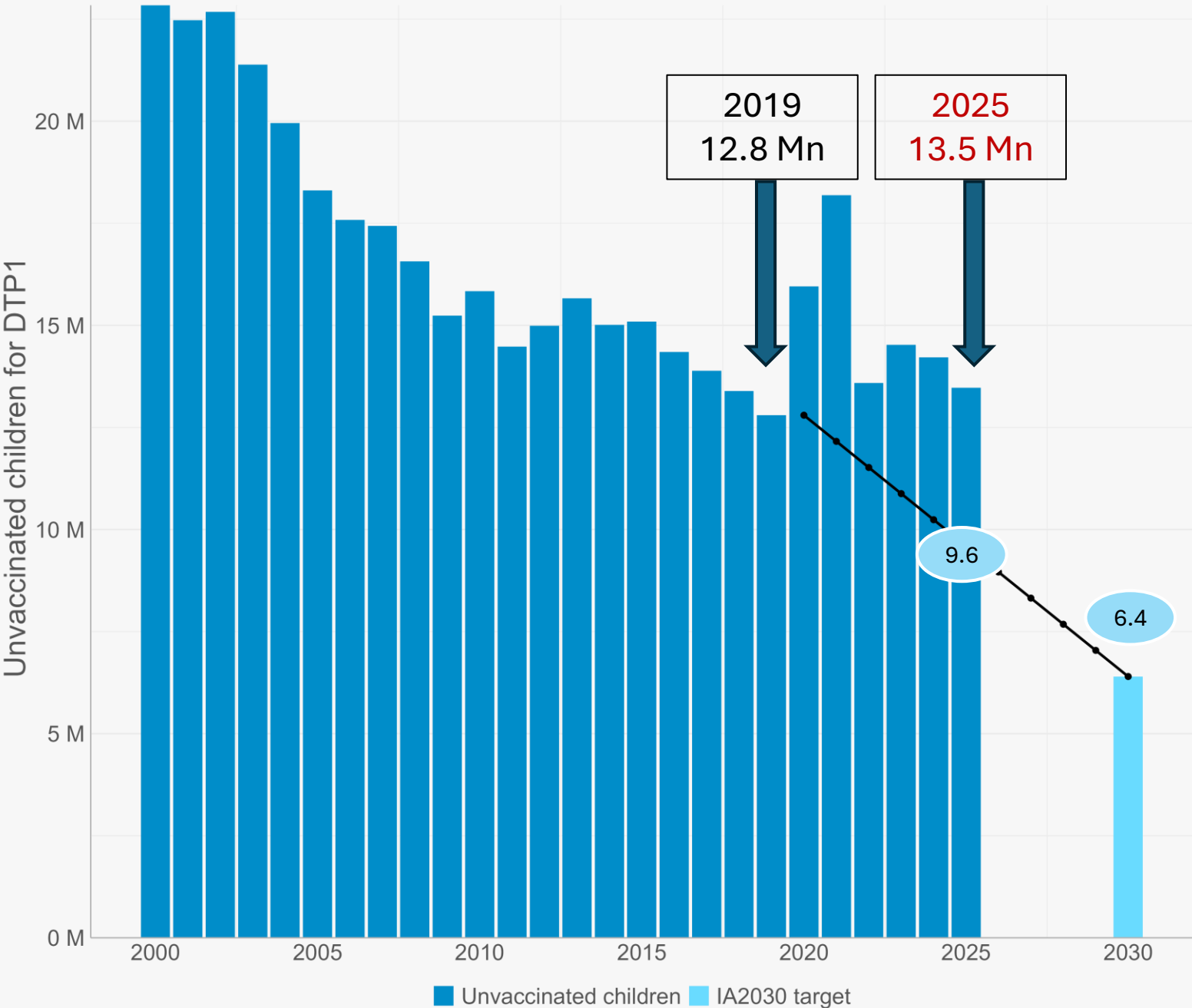
Seriously off track to achieve the Zero-Dose Children IA2030 target agreed by all countries

The IA2030 strategy aims to reduce the number of Zero-Dose Children by half, to 6.4Mn by 2030 from 12.8Mn at the 2019 baseline.

At the decade's midpoint in 2025, there were 13.5Mn ZDC, 0.7Mn more than in 2019.

That is 3.9Mn above the 2025 target of 9.6Mn, which is the halfway point of IA2030.

2025 numbers are further away from the annual ZDC target than the world was in 2024.



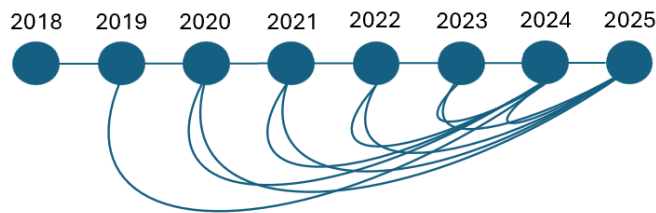
Big Catch-up results among 36 priority countries

Children born in earlier cohort years, were caught up in 2024–2026. The following numbers of catch-up doses were reported by 36 BCU countries:

- DTPI: 14.3m (shown)
- DTP3: 14.1m
- MCV1: 17.2m
- MCV2: 10.6m
- IPV1: 25.3m
- OPV: 28.9m

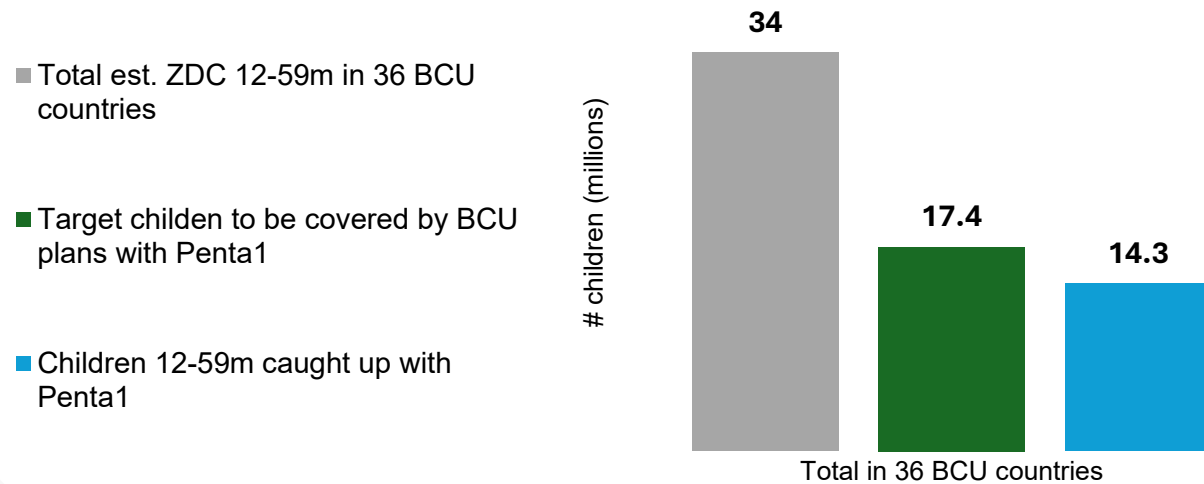
Children born in earlier cohort years,
were caught up in 2024–2026

Big Catch-up vaccination
activities for eligible
children 12–59 months



Reaching Zero-Dose Children *from previous years*

Penta1 catch-up doses administered 12–59m



Note: Total estimated missing doses (gray bars) is calculated from **WUENIC 2024** and UN Population estimates for children born in **2021–2024**; includes national figures and noting that 6 countries have subnational plans (KGZ, MLI, MOZ, NGA, SUD, TJK). Target children (middle bars) is from BCU plans with ambition coverage derived from WUENIC 2022 for children born in 2019–2022.

Note: Country-reported unverified administrative data for which figures may be over- or under-estimated based on various limitations with the source data, including variability in recording/reporting practices, and potential revaccination of individual children previously vaccinated. Data received as of 15 June 2026.

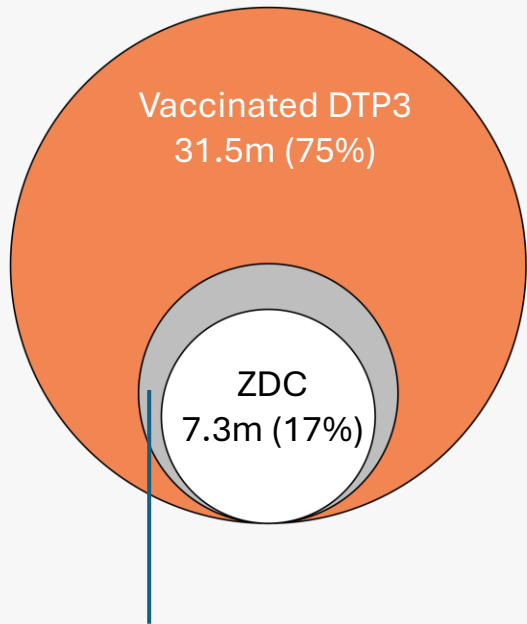
Countries with Fragile, Conflict, and Vulnerable (FCV) settings are home to 33% of the world’s birth cohort, but 54% of Zero-Dose children

Countries afflicted with conflict, vulnerable and conflict settings experience obvious challenges that hamper their ability to provide access for all. 17% of children remain entirely unvaccinated and a further 8% drop out before full vaccination with a 3-dose schedule, resulting in only 75% DTP3 coverage in such countries.

Other countries perform much better on average, with only 7% zero-dose prevalence and 3% of children dropping out. Average DTP3 coverage in these countries is 90%.

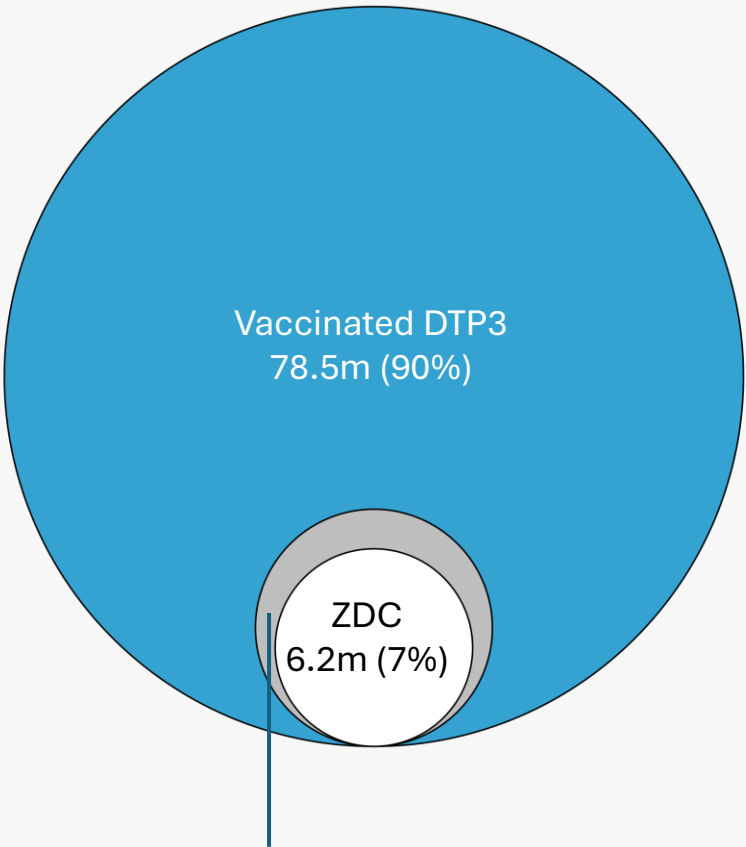


42m children (33% of cohort) in 33 countries with FCV settings



Drop Out 3.4m (8%)

87m (67% of cohort) children in 162 countries without FCV settings

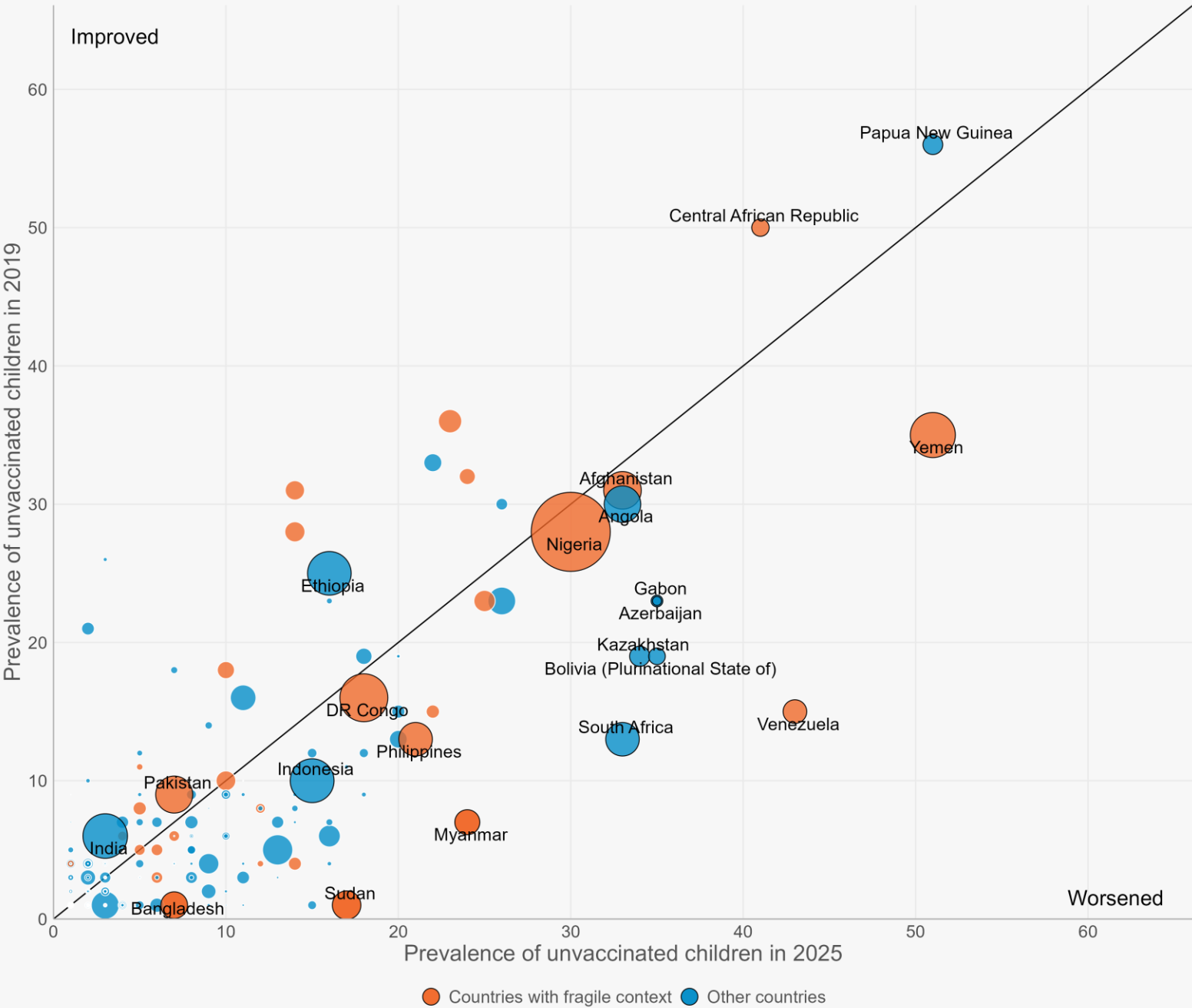


Drop Out 2.7m (3%)

Countries and territories with fragile, conflict, and vulnerable (FCV) settings worsened at a faster pace since 2019

FCV settings go some way in explaining why Zero Dose Targets were not met and still exceed the 2019 baseline. That includes the initiation of conflict in Sudan and a worsening situation in Yemen and Venezuela.

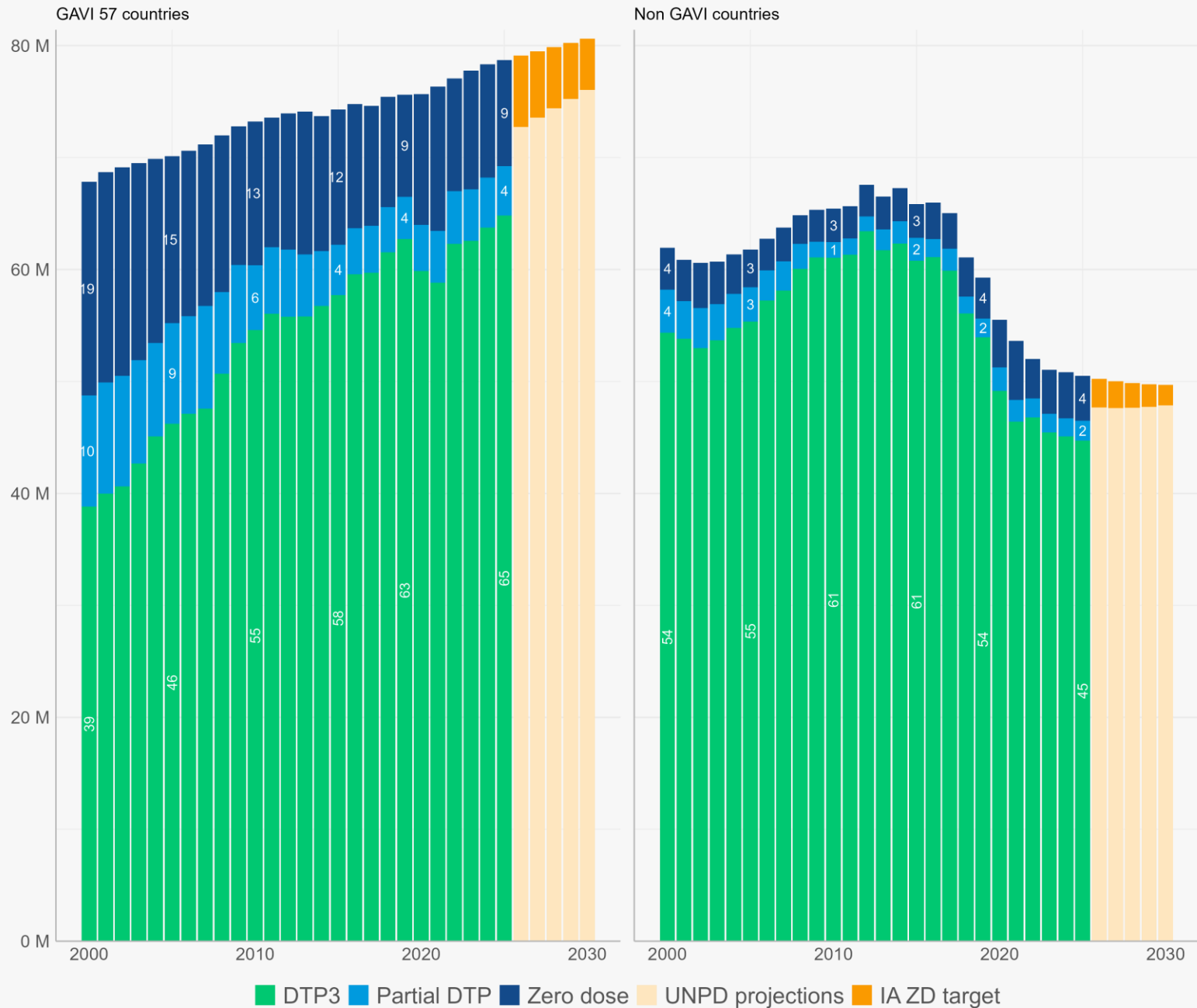
However, plenty of more stable countries like South Africa, Bolivia, or Gabon also perform worse now than in 2019.



More children vaccinated than ever in Gavi countries (but still more ZDC than in 2019) because birth cohort increases

69 million children received at least one dose, and 65 million received three doses of a DTP containing vaccines in Gavi countries, That is more than in 2019 (67 million DTP1 and 63m DTP3).

However, due to the birth cohort growth in Gavi countries, there were still slightly more zero-dose children in 2025 than in 2019 (9.5m v 9.1m) in the Gavi countries as a whole.



The Breadth of Protection in Gavi countries is almost on par with non-Gavi countries

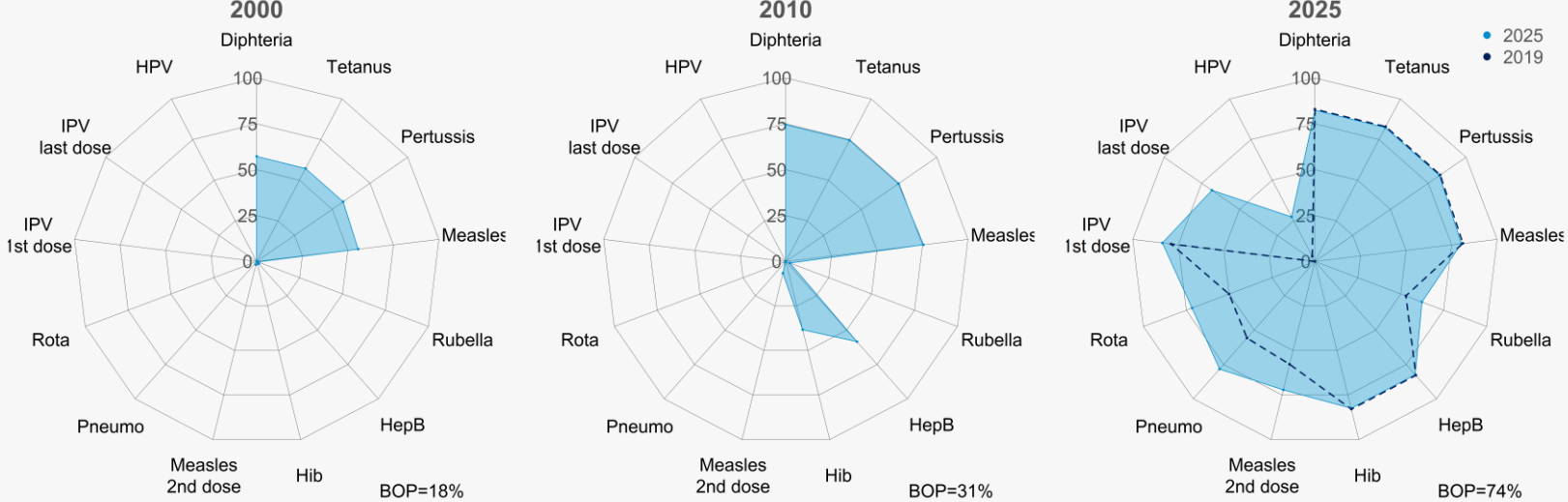
The Breadth of Protection (BOP) in Gavi countries has increased sharply and is now on par with non-Gavi countries, primarily attributable to vaccine introductions.

Despite dramatic increases in BOP following new vaccine introduction, coverage for all antigens is relatively stalled on average across both Gavi and non-Gavi countries.

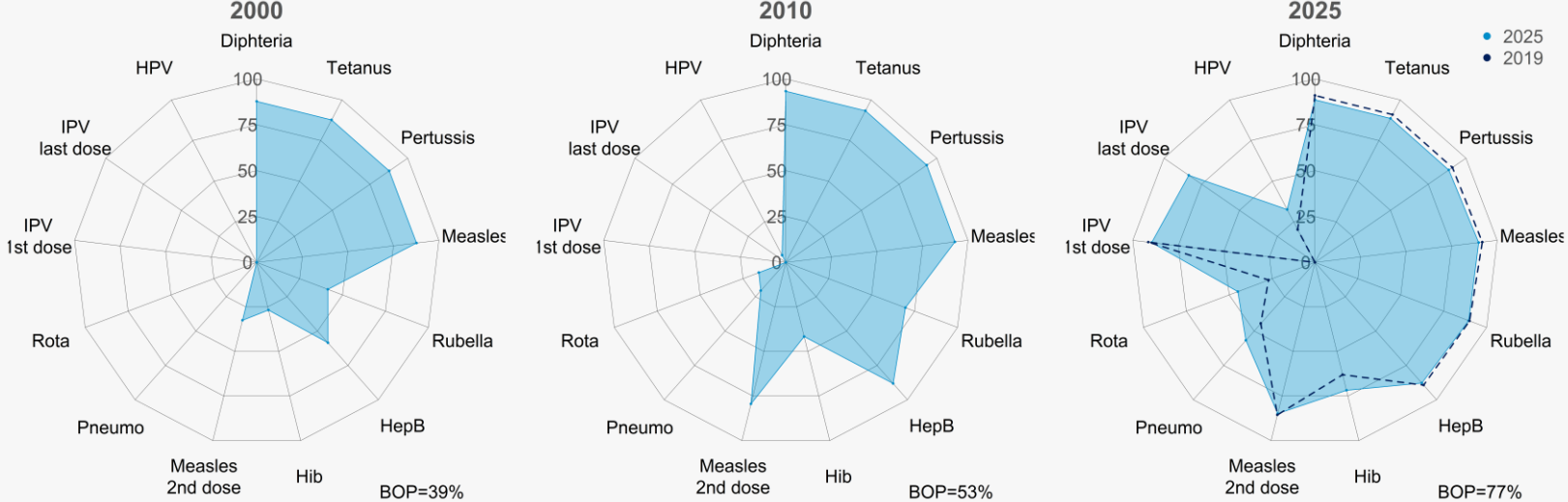
Programme improvements at local level with focus on equitable access are needed to achieve further closure of the residual gaps.



BOP in GAVI supported countries between 2000 and 2025



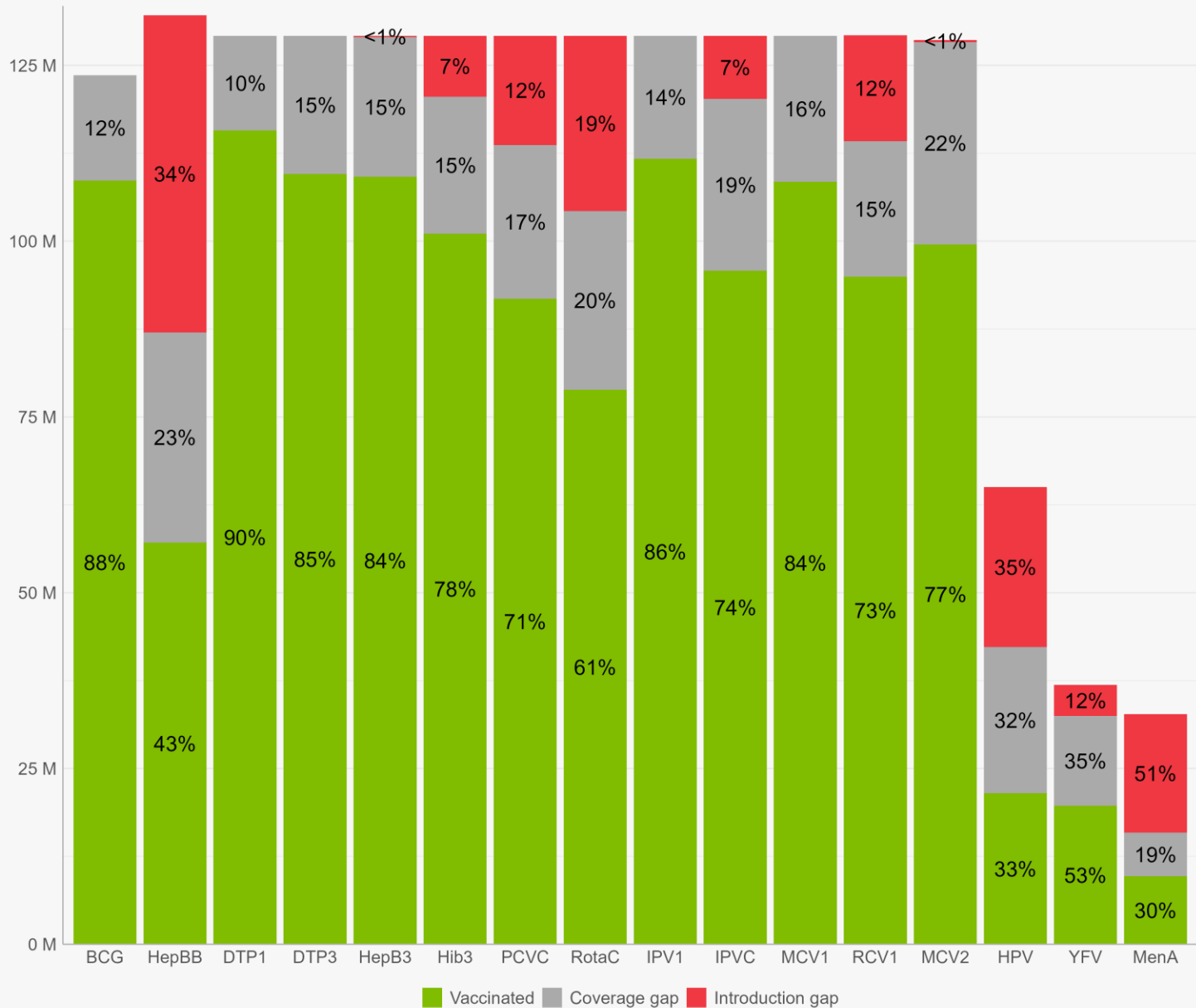
BOP in non-GAVI countries between 2000 and 2025



Some introduction gaps remain for new vaccines

This chart shows introduction and coverage gaps for each of the vaccines for which WUENIC estimates are available.

- Introduction gaps refer to the percentage of children living in a country that has not yet introduced the vaccine, i.e. they don't have access
- Coverage gaps refer to the percentage of unvaccinated children living in a country that has introduced the vaccine



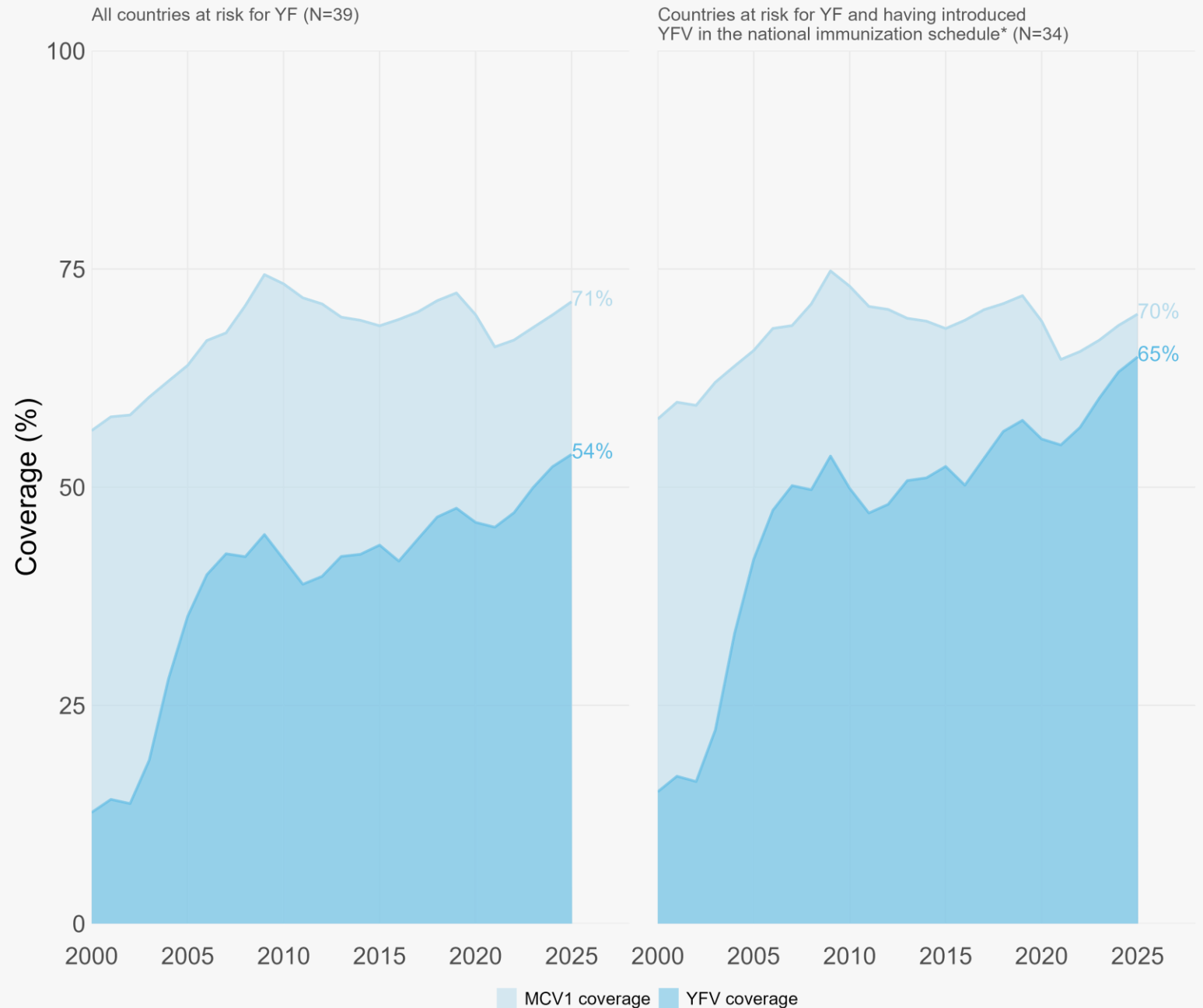
The cohort for most vaccines is surviving infants, except BCG (births in countries that recommend the vaccine), HepBB (births), HPV (15 years old girls), YFV (surviving infants in countries at risk), MenA (surviving infants in Meningitis belt countries) and MCV2 (children of the minimum age at which MCV2 is recommended for each country). The HepBB introduction gap may include countries that introduced Hepatitis B birth dose but are not able to differentiate doses given within 24 hours from doses given beyond 24 hours.

Yellow Fever Vaccine (YFV) coverage remains too low to prevent outbreaks in countries at risk

Yellow Fever Vaccine coverage, averaged across 39 countries at risk for the disease is just 54%, too low to prevent outbreaks and necessitating campaigns in many countries. This low value is partly a result of 5 countries not yet having introduced YFV into the RI schedule.

There is also a significant difference between Yellow Fever and Measles vaccines coverage in those countries with YF risk even though both vaccines are administered at the same age (9 months) – data shown in left hand figure

This gap is partly explained by some countries not yet having introduced YFV, a partial introduction of YFV in countries with subnational risk, and partly because of under-performance of Yellow Fever vaccination compared to Measles vaccine (5% difference in countries that did introduce at national level) -- data shown in right hand figure.



*excludes countries with subnational risk (Argentina, Kenya and Panama)

Meningitis A and MCV1 coverage in countries from the Meningitis belt

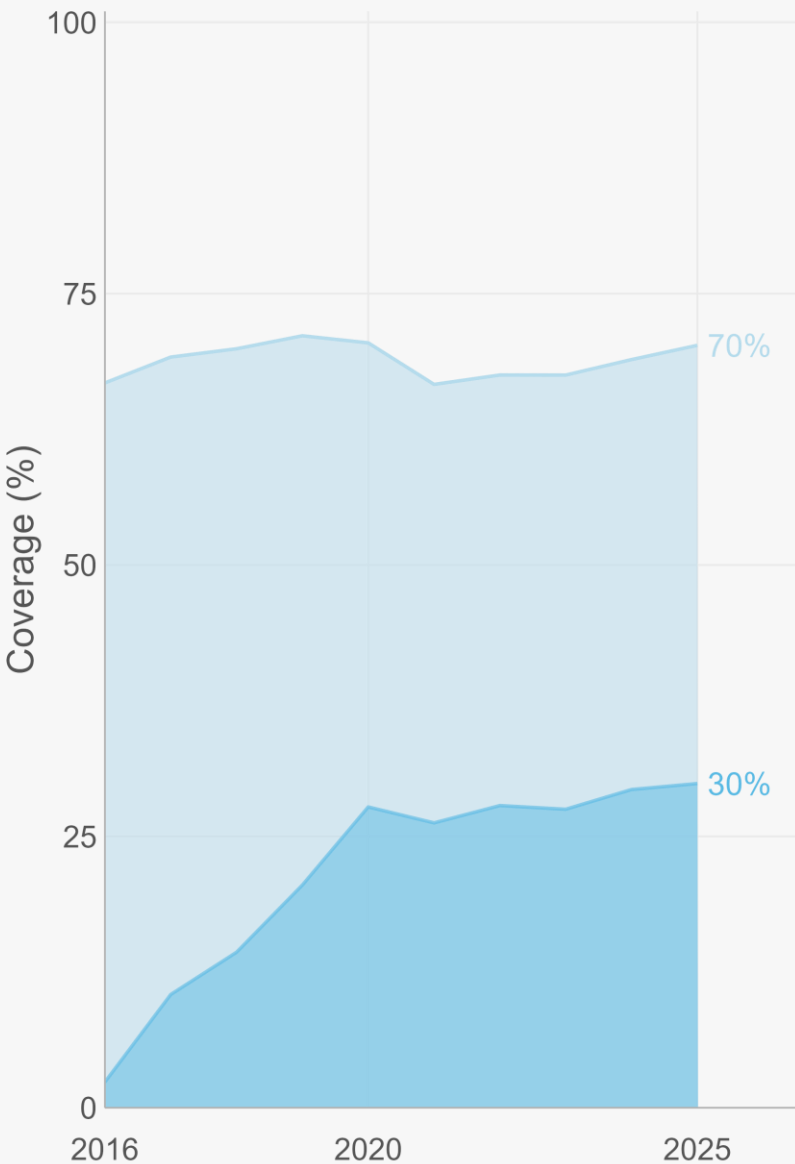
Among 26 countries in the African meningitis belt, 15 have introduced a Meningitis A vaccine in routine immunization.

Averaging across all countries in the meningitis belt, MenA vaccine coverage stands at 30%, with the 15 that have introduced achieving 61%. This value is insufficient to sustain the disease elimination that has already been achieved.

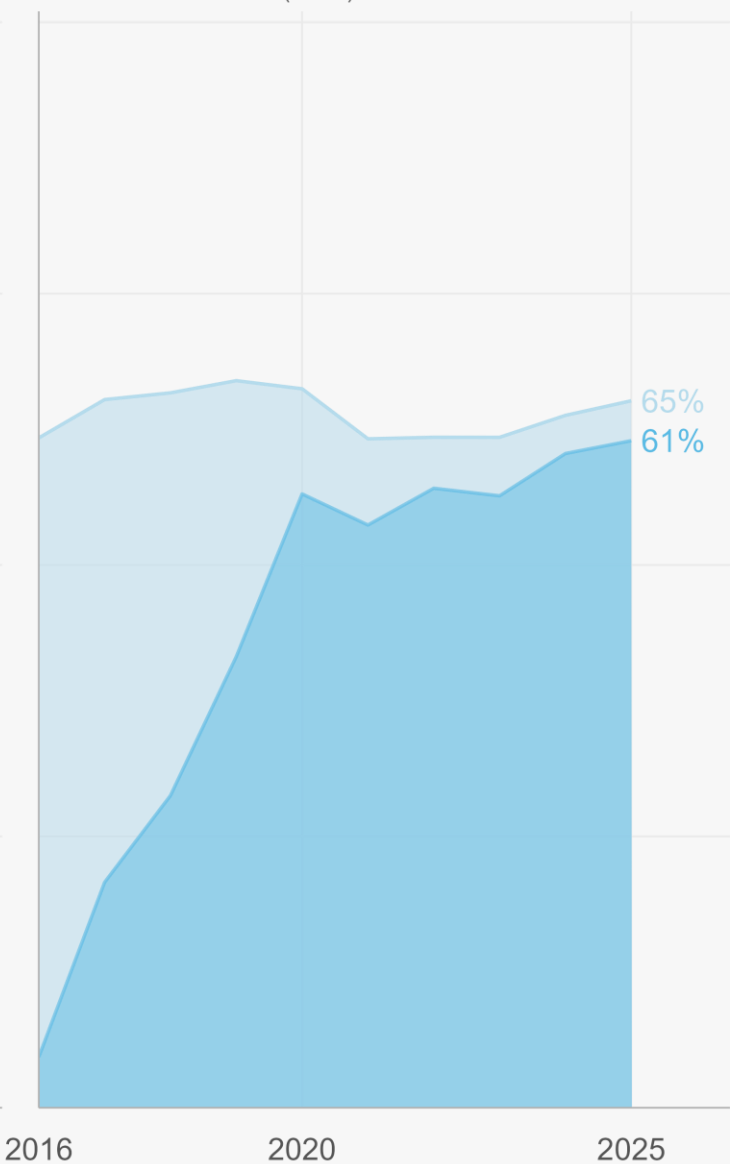
The gap between MCV1 and MenA coverage (administered at the same age) in those countries using both vaccines is marginal (4%).



All countries from the meningitis belt (N=26)



Countries from the meningitis belt and having introduced Meningitis A vaccine in the national immunization schedule (N=15)

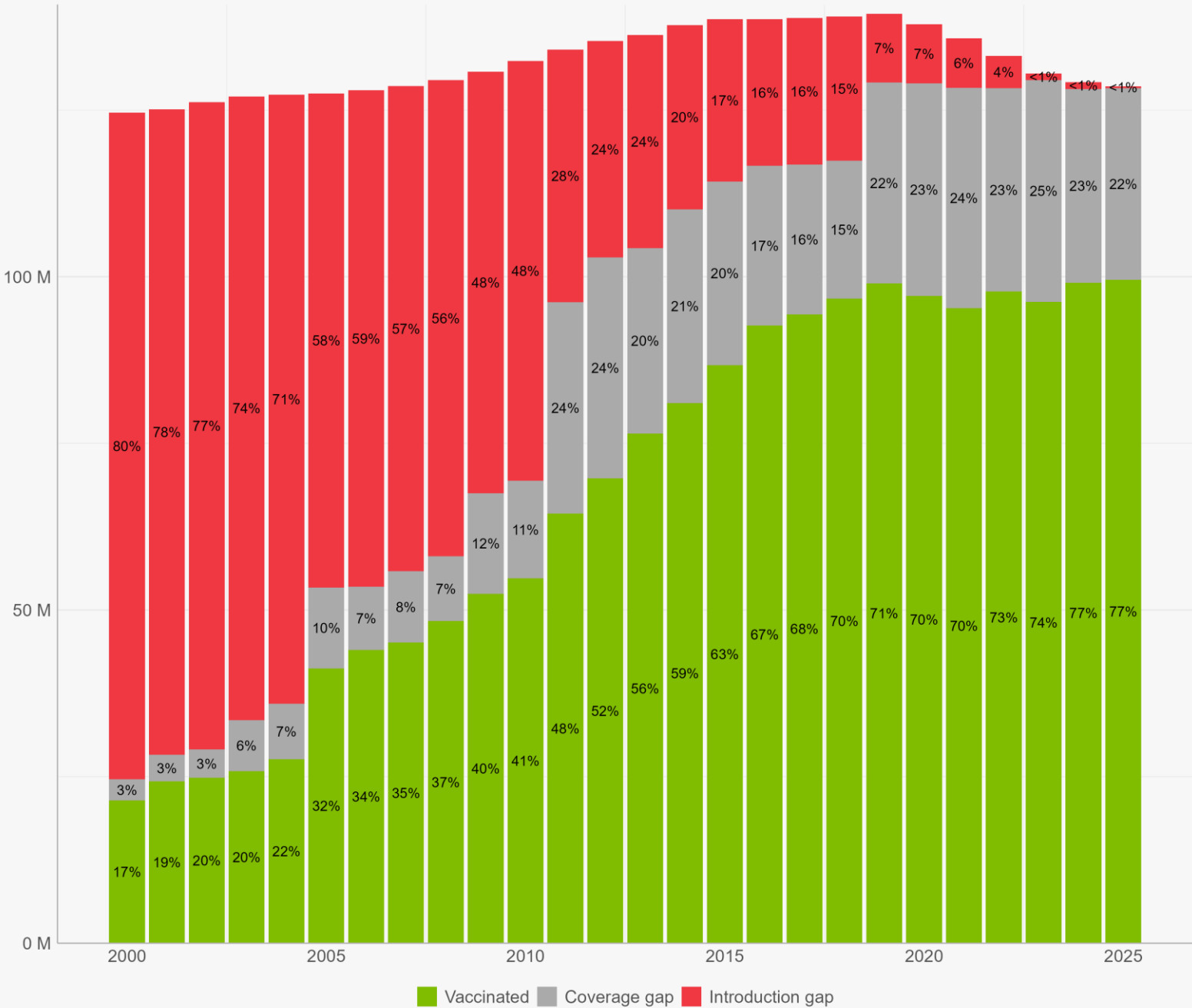


MCV1 coverage MenA coverage

The introduction gap for a second dose of Measles is almost closed

In 2000, only 20% of the world's children lived in a country where a second dose of measles was routinely offered. In 2025, only two countries (Central African Republic and Gabon) are yet to introduce this dose, representing less than 1% of the global cohort.

A coverage gap of 22% nevertheless remains as programmes often find it harder to serve older children.

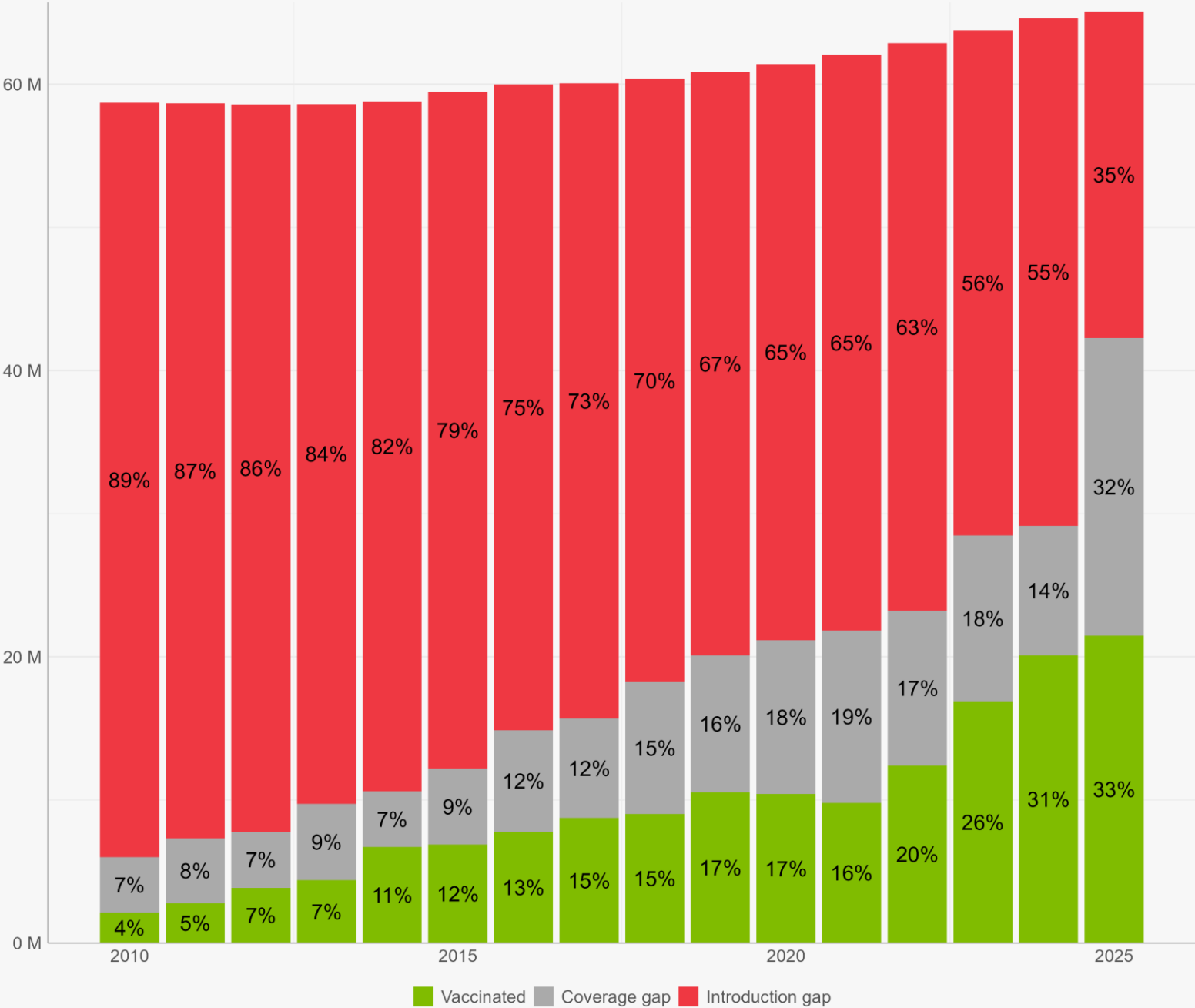


Global access* to HPV vaccine has increased significantly to 65% in 2025

Global access* to HPV vaccine has increased significantly to 65% in 2025. The leap is particularly due to introduction in China and 14 other countries.

2.5Mn (33% of all girls) received at least one dose of HPV vaccine in 2025, 20.8Mn (32% of all girls) were missed by the HPV programme in their country, and the remaining 22.8 Mn (35% of girls) live in a country where the vaccine is not part of the immunization programme.

The modest increase in girls vaccinated, in the face of 15 countries newly introducing HPV vaccine in 2025 is attributed to a combination of coverage backsliding in some existing programs and no coverage data reporting for some 2025 introductions, including China



Access to HPV vaccine is geographically uneven

Significant introduction progress has been made in AFR and WPR. This is accompanied by significant reductions in numbers of girls who are never reached in AFR, AMR, EUR by HPV vaccination.

There are still gains to be made in introductions and reducing gaps in coverage in SEAR and EMR.

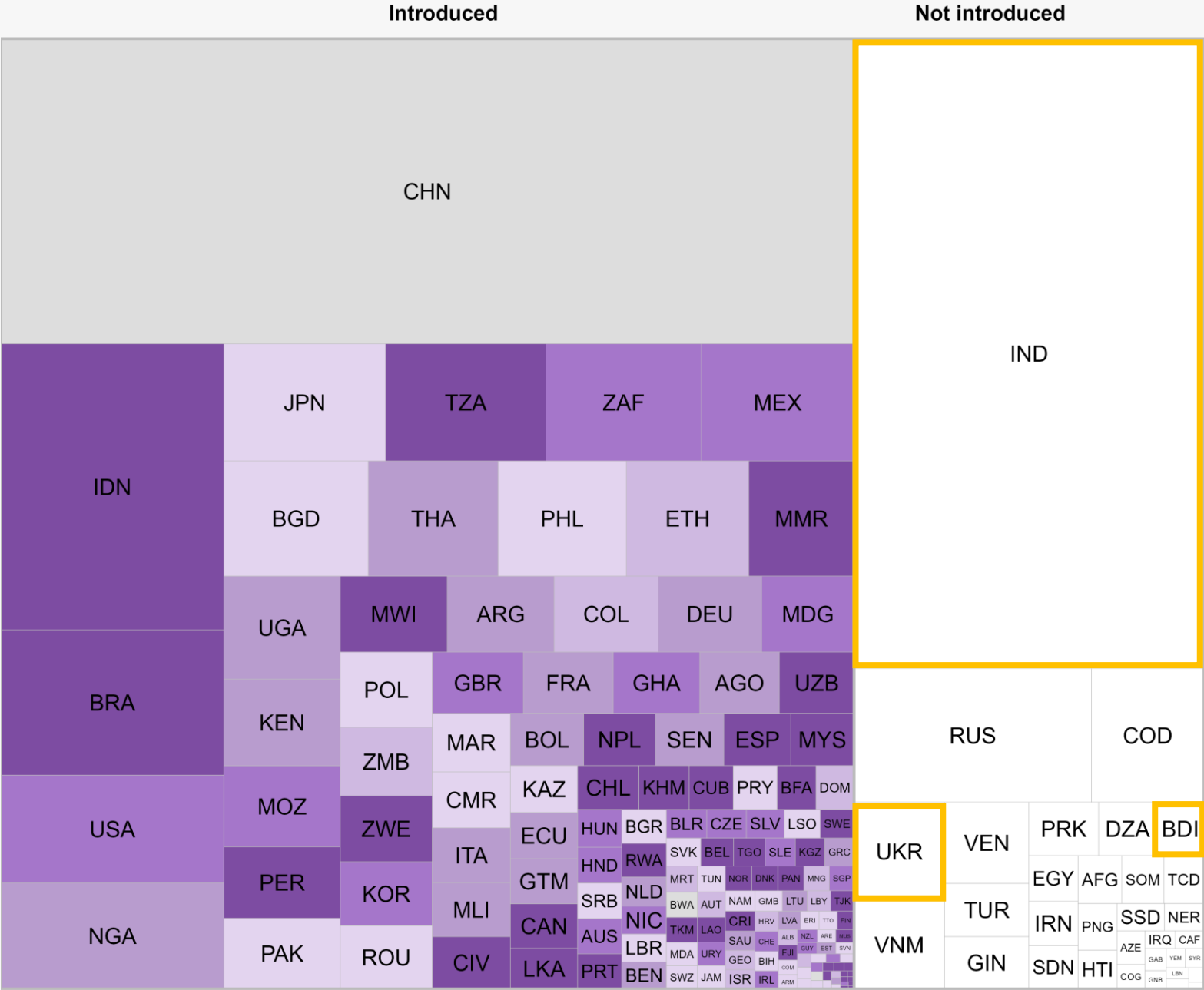
** The introduction in China has greatly increased access in 2025 to the HPV vaccine in WPR. When China starts reporting HPV coverage data, girls vaccinate in WPR is anticipated to increase considerably.*



The HPV vaccine is now introduced in countries representing 70% of the global burden of cervical cancer

By end of 2025, with 15 new vaccine introductions, HPV vaccine was introduced in countries with nearly 70% of the global burden of cervical cancer. This includes China which has one of the largest cervical cancer burdens globally.

2026 Introductions (planned and completed) will raise this proportion to ~90% of the global cervical cancer burden will be in countries that will now be including HPV vaccine in the immunization programme



HPV1 F coverage 0%-49% 50%-59% 60%-69% 70%-79% 80%-100% Estimate not available Not introduced

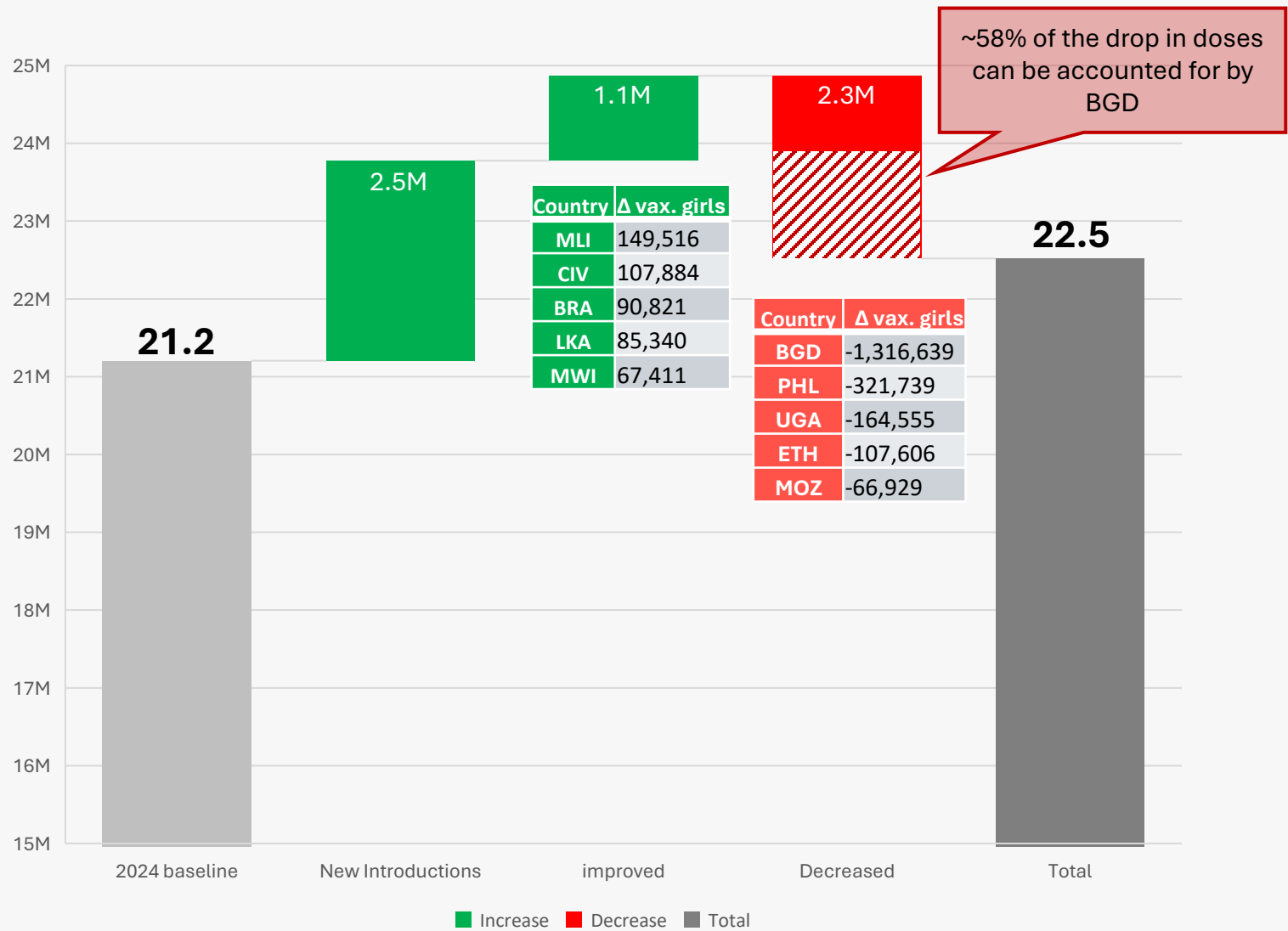
Countries introduced in 2026, as of June

Total number of girls reached in routine cohorts with HPV vaccine rose modestly, despite 15 introductions.

The main driver of increased dose deployment are 15 new HPV vaccine introductions accounting for 2.5Mn additional vaccines being administered compared to last year.

Revitalization of HPV programmes in a set of countries, particularly those carrying out catch up campaigns, further boosted the total number of girls reached with HPV vaccines – while a subset of countries saw coverages slide at a higher rate than in 2024 (5 largest shown in graph).

The main driver behind the modest global increase is drops in some large countries, including Bangladesh (1.3Mn), of girls vaccinated in 2025 from 2024, which nearly offsets the gains made through new introductions.

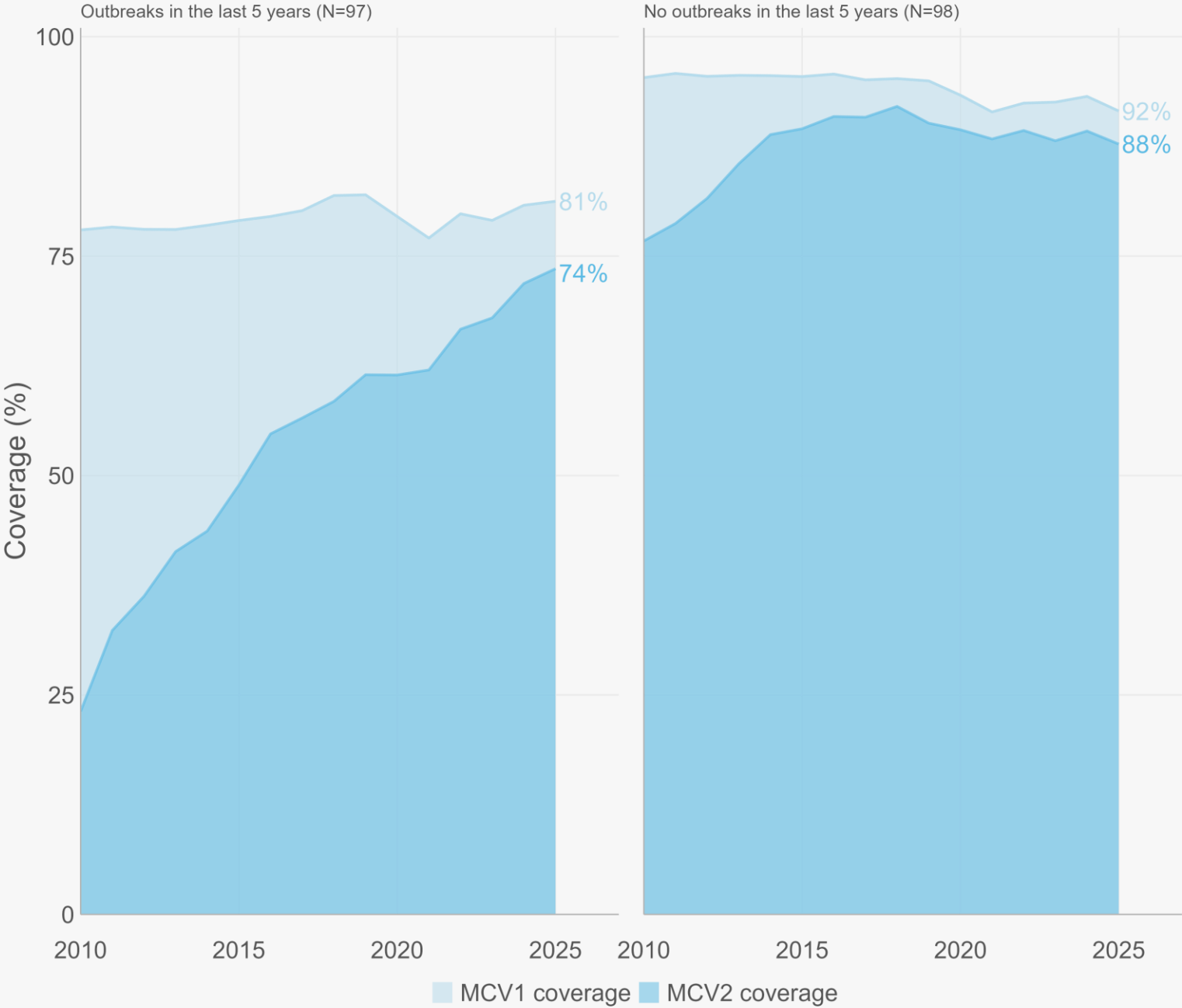


*New Introductions: Angola, Benin, Belarus, China (no data yet), Comoros, Cuba, Djibouti, Ghana, Madagascar, Namibia, Nepal, Oman, Pakistan, Tajikistan, Tunisia
** Data based on HPV1 coverage
*** Countries listed with increase and decreases in coverage are only the 5 largest by number of girls

Countries with large or disruptive measles outbreaks achieve coverage well below the required levels for disease control

97 countries experienced large or disruptive Measles outbreaks in the last 5 years. They represent 74% of total surviving infants and achieve substantially lower routine immunization coverage than the group of countries that avoided outbreaks.

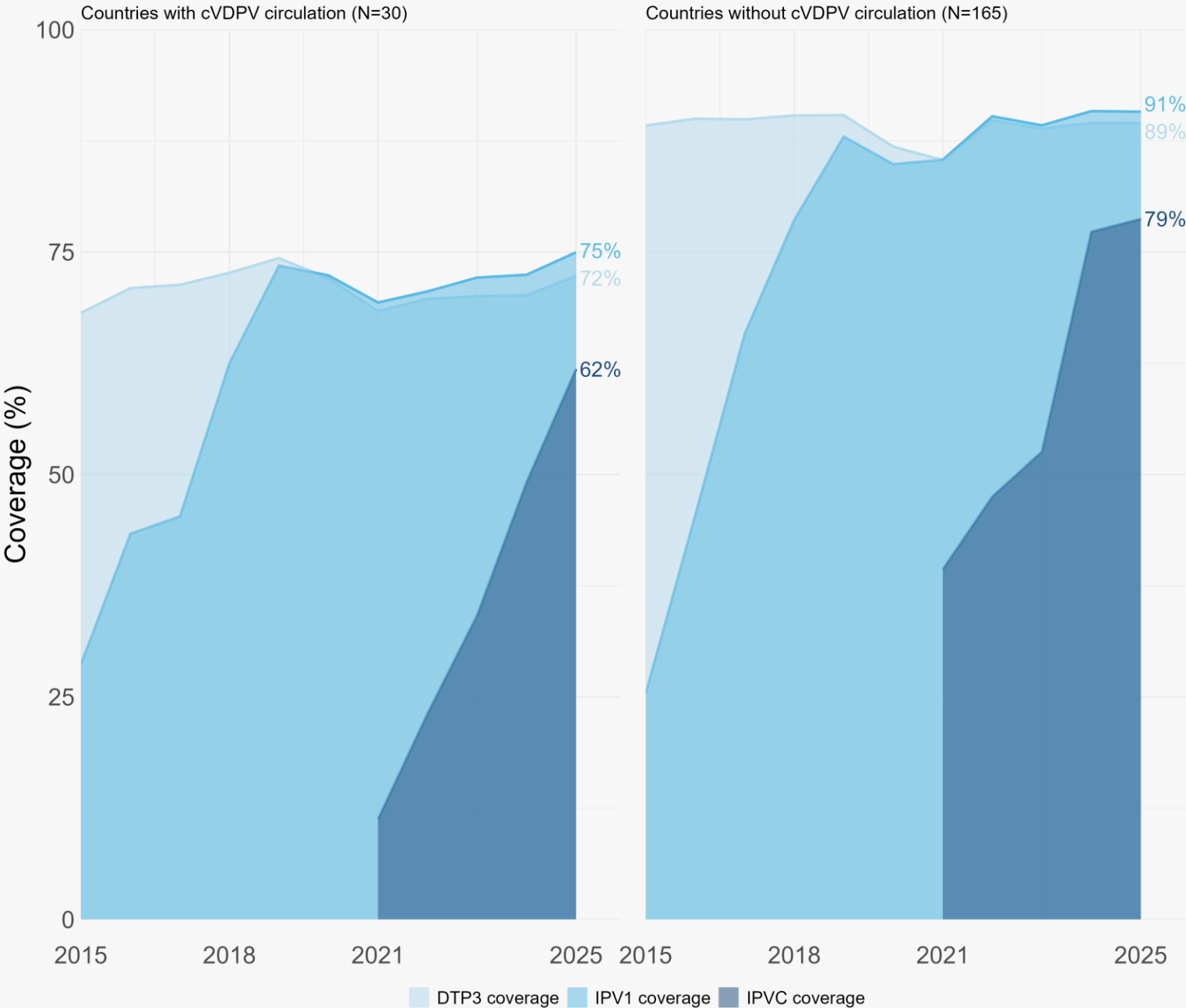
This finding illustrates that achieving high routine coverage remains the best way to avoid outbreaks.



IPV coverage remains too low in countries with active cVDPV circulation

Countries that schedule an Oral Polio Vaccine (OPV) have also introduced at least one, and increasingly two doses of inactivated polio vaccine (IPV).

Countries with active polio virus circulation in 2025 (either detected in cases or in environmental samples) have much lower mean coverage.



Emerging Country Performance Archetypes

Country trajectories are not uniform. Global immunization recovery demands highly tailored, context-specific strategies mapped against four distinct archetypes:



Lower income, High Growth

Primarily low-income countries in the AFR & EMR regions experiencing rapid demographic expansion. Weak health systems are compounded by severe poverty and subnational inequities.



Fragile, Conflict, & Vulnerable

Countries facing multiple challenges resulting in high initial access hurdles (17% Zero-Dose prevalence) and poor continuity of care (high drop-out rates).



Backsliding Jurisdictions

High and upper-middle-income countries that historically performed well but are now slipping. Driven primarily by fading political commitment and growing vaccine hesitancy.



Life-Course & Resilient

Countries prioritizing immunization across the entire life course, maintaining resilience. 90 countries maintained coverage >95%, and 21 are on track for IA2030 goals.

Key summary findings from 2025 WUENIC data

These should inform our response and actions

- Global recovery in routine immunization remains too slow and world remains far off-track for the 2030 Zero-Dose reduction target.
- Zero-dose children are increasingly concentrated in fragile, conflict-affected and vulnerable (FCV) settings.
- Drop-out is an important and growing contributor to under-vaccination, and reflects program performance.
- Country patterns are not uniform and require locally tailored responses.
- New vaccine access is expanding, but coverage gains are uneven, and post-intro program performance is relevant.
 - e.g. HPV continues successful expansion, but sub-optimal coverage means too many girls are still missed.
- Routine immunization is the core mechanism for preventing costly and disruptive outbreaks.

Where to find data and background information on immunization coverage estimates and related data

WUENIC and the annual immunization data reported by countries are available on **WHO and UNICEF Immunization data portals**

- www.who.int/data/immunization
- <https://data.unicef.org/topic/child-health/immunization/>

WHO and UNICEF coverage estimates [methods](#) and [country profiles](#):

- <https://www.who.int/teams/immunization-vaccines-and-biologicals/immunization-analysis-and-insights/global-monitoring/immunization-coverage/who-unicef-estimates-of-national-immunization-coverage>
- <https://worldhealthorg.shinyapps.io/wuenic-trends/>
- [https://www.who.int/teams/immunization-vaccines-and-biologicals/diseases/human-papillomavirus-vaccines-\(HPV\)/hpv-clearing-house/hpv-dashboard](https://www.who.int/teams/immunization-vaccines-and-biologicals/diseases/human-papillomavirus-vaccines-(HPV)/hpv-clearing-house/hpv-dashboard)

For more information on the [Immunization Agenda 2030](#), please visit

- www.immunizationagenda2030.org/

For more information on “[Big Catch-Up](#)”, please visit

- www.who.int/publications/i/item/9789240075511

WHO dashboard with immunization coverage and vaccine introduction data

- https://worldhealthorg.shinyapps.io/IVB_standard_outputs/

Other datasets

[WHO MI4A Public Vaccine Purchase Dataset](#)

- <https://www.who.int/publications/m/item/2025-mi4a-public-vaccine-purchase-dataset>

[WHO Immunization Expenditure Dataset](#)

- https://immunizationdata.who.int/global/wiise-detail-page/immunization-expenditure?ISO_3_CODE=&YEAR=