

# COVID-19 Vaccination Insights Report

*29 May 2023*



# Notes & disclaimer

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| <b><u>Description:</u></b> | <ul style="list-style-type: none"><li>• A standard analytic report produced of key COVID-19 vaccine implementation data, including uptake, supply received, and delivery financing across WHO Member States, the COVAX AMC portfolio and the 34 Countries for Concerted Support.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b><u>Data inputs:</u></b> | <ul style="list-style-type: none"><li>• COVAX/CoVDP Demand &amp; Supply Planning Mechanism data (Country coverage targets)</li><li>• UN DESA Population Division Population Data (Total population; 12+ population; 18+ population; 60+ population)</li><li>• UNICEF COVID-19 Vaccine Financial Monitoring Database (Total allocated external financing for vaccine delivery)</li><li>• UNICEF COVID-19 Vaccine Market Dashboard Data (Total COVID-19 vaccine doses delivered [all sources])</li><li>• WHO/UNICEF electronic Joint Reporting Form (eJRF) (Uptake in healthcare worker and 60+ populations, gender-disaggregated uptake)</li><li>• WHO COVID-19 Vaccine Administration Data System (Total doses administered; Individuals with at least one dose; Individuals fully vaccinated)</li></ul>                                                                                                                                                                                                                                                                                                                                           |
| <b><u>Methodology:</u></b> | <ul style="list-style-type: none"><li>• Methods for analyses presented in this report are contained in the COVID-19 Vaccination Data &amp; Monitoring Coordination Manual (<a href="#">link</a>)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b><u>Inquiries:</u></b>   | <ul style="list-style-type: none"><li>• Please contact the COVID-19 Vaccination Data Team at <a href="mailto:c19vxdata@who.int">c19vxdata@who.int</a>.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b><u>Disclaimer:</u></b>  | <ul style="list-style-type: none"><li>• The data found in this report have been produced and processed from sources believed to be reliable. While these data and analyses are provided in good faith and to the best of the World Health Organization’s (WHO’s) knowledge, WHO does not commit to it being up to date. While every effort is made to ensure the data quality, the data and analyses are provided “as is.” The burden of fitness of the data and analyses lies completely with the user. The accuracy of any user’s statistical analysis and any reported findings are not the responsibility of WHO. WHO does not make any warranty, express or implied, including warranties of fitness for a particular purpose, or assume any legal liability or responsibility for the accuracy, completeness, reliability, or usefulness of any information provided (either isolated or in the aggregate), or represent that its use would not infringe privately owned rights.</li></ul> <p>Maps in this report do not reflect a position by WHO on the legal status of any country or territory or the delimitation of any frontiers.</p> |

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- III. Countries for Concerted Support analysis**
- IV. Annexes**

# **I. WHO Member State analysis**



# Key global figures on COVID-19 vaccination

| Current | 1-Month Change |                                                                                                     |
|---------|----------------|-----------------------------------------------------------------------------------------------------|
| 13.4bn  | 12M            | doses of <b>COVID-19 vaccines</b> have been administered globally                                   |
| 89 %    | -0%            | <b>of health workers</b> have received a complete primary series across WHO MS                      |
| 82 %    | -0%            | <b>of older adults</b> have received a complete primary series across WHO MS                        |
| 66 %    | -0%            | <b>of the general population</b> has received a complete primary series across WHO MS – 23% in LICs |

## Out of 194 WHO Member States

67 ➡

Member States have vaccinated **more than 70% of their population**

138 ➡

Member States have vaccinated **more than 40% of their population**

186 ➡

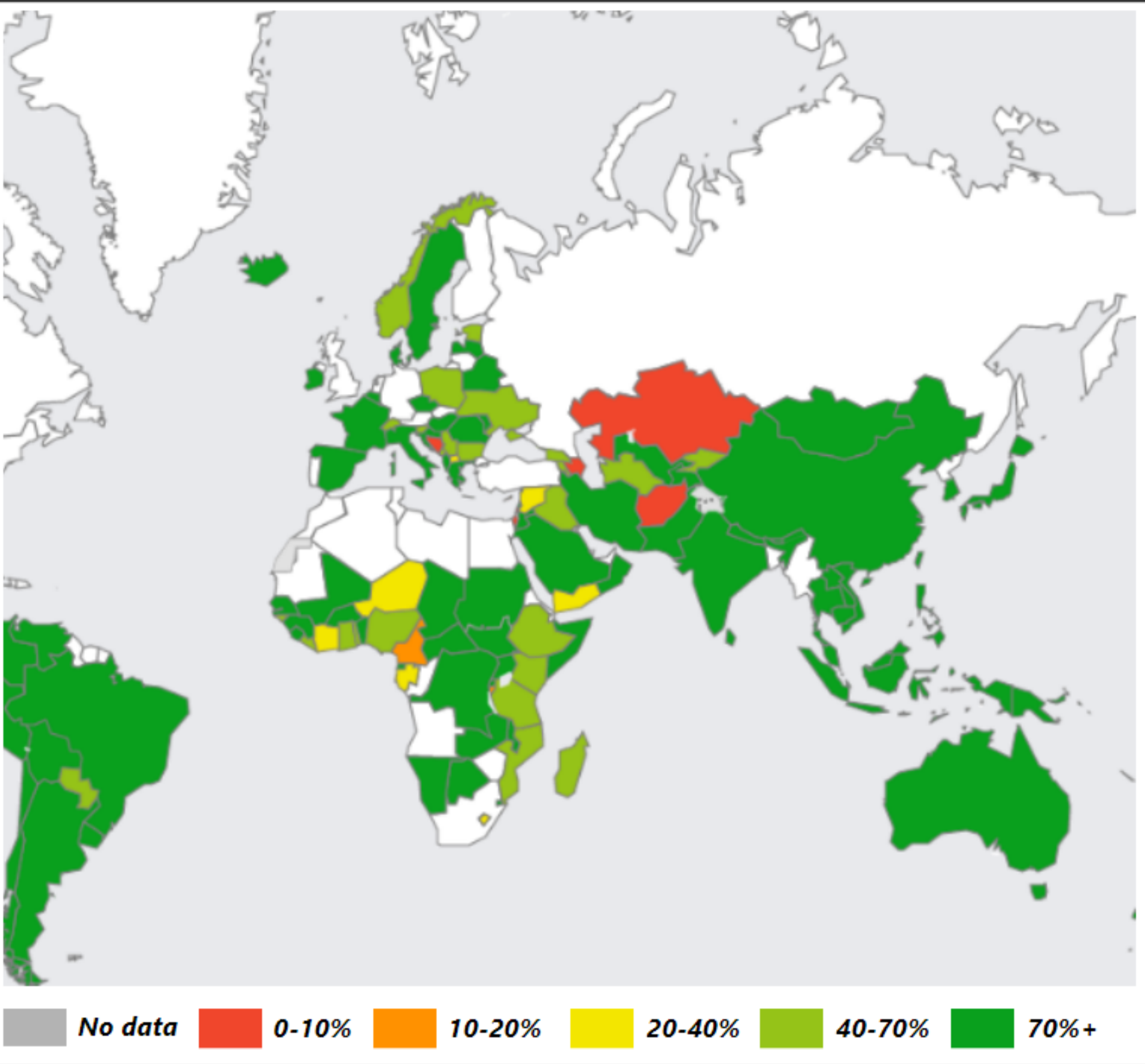
Member States have vaccinated **more than 10% of their population**

187 ➡

Member States have **started booster / additional dose programs**



# Healthcare worker coverage across reporting WHO Member States



| WHO region | WHO MS reporting | Complete | Partial |
|------------|------------------|----------|---------|
| AFR        | 38               | 64 %     |         |
| AMR        | 19               | 99 %     |         |
| EMR        | 12               | 71 %     |         |
| EUR        | 40               | 73 %     |         |
| SEAR       | 7                | 100 %    |         |
| WPR        | 27               | 96 %     |         |
| Total      | 143              |          |         |

| Income group | WHO MS reporting | Complete | Partial |
|--------------|------------------|----------|---------|
| 1) LIC       | 25               | 52 %     |         |
| 2) LMIC      | 42               | 89 %     |         |
| 3) UMIC      | 39               | 92 %     |         |
| 4) HIC       | 35               | 89 %     |         |
| 5) Other     | 2                | 93 %     |         |
| Total        | 143              |          |         |

143

WHO MS have reported at least once on healthcare worker vaccination coverage

59 %

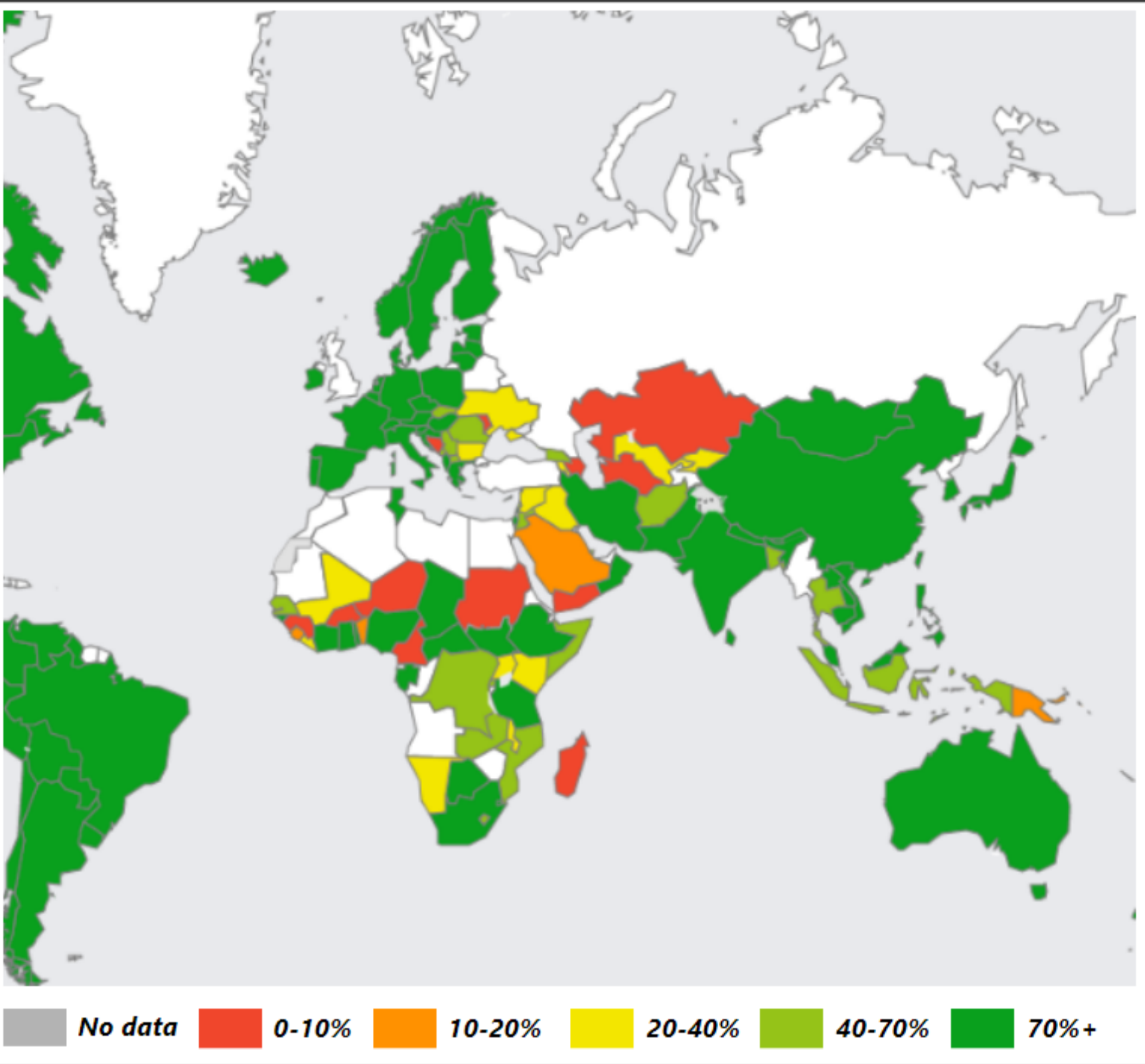
of healthcare workers are in reporting WHO MS of total healthcare workers in all WHO MS

89 %

of total healthcare workers with a complete primary series across reporting WHO MS

**Notes:** Coverage figures are capped at 100%. Target population definitions vary, especially across HICs; this can impact uptake figures reported. Estimated healthcare worker population sizes vary by source (ILO vs. country reports). A correction factor was applied to countries reporting inconsistent figures. Cook Islands and Niue are not categorized in an income group by the World Bank.

# Older adult coverage across reporting WHO Member States



| WHO region | WHO MS reporting | Complete | Partial |
|------------|------------------|----------|---------|
| AFR        | 38               | 56 %     |         |
| AMR        | 24               | 92 %     |         |
| EMR        | 14               | 58 %     |         |
| EUR        | 46               | 80 %     |         |
| SEAR       | 9                | 77 %     |         |
| WPR        | 27               | 90 %     |         |
| Total      | 158              |          |         |

| Income group | WHO MS reporting | Complete | Partial |
|--------------|------------------|----------|---------|
| 1) LIC       | 24               | 36 %     |         |
| 2) LMIC      | 43               | 76 %     |         |
| 3) UMIC      | 40               | 86 %     |         |
| 4) HIC       | 49               | 92 %     |         |
| 5) Other     | 2                | 41 %     |         |
| Total        | 158              |          |         |

158

WHO MS have reported at least once on older adult vaccination coverage

90 %

of older adults are in reporting WHO MS of total older adults in all WHO MS

82 %

of total older adults with a complete primary series across reporting WHO MS

**Notes:** Coverage figures are capped at 100%. Target population definitions vary; country-specific definitions of older adults are used to calculate older adult population population denominators using data from the United Nations Population Division. Cook Islands and Niue are not categorized in an income group by the World Bank.

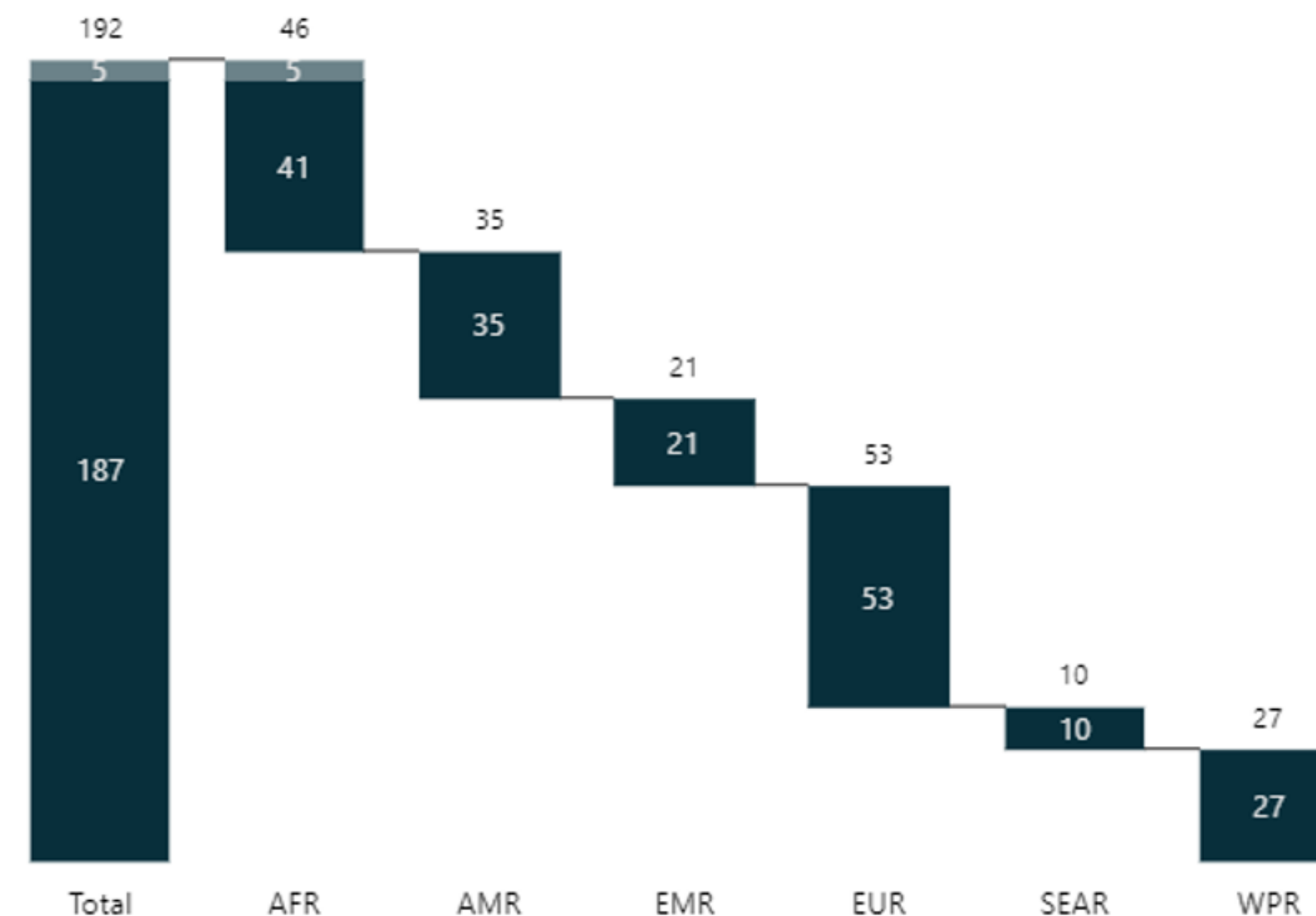
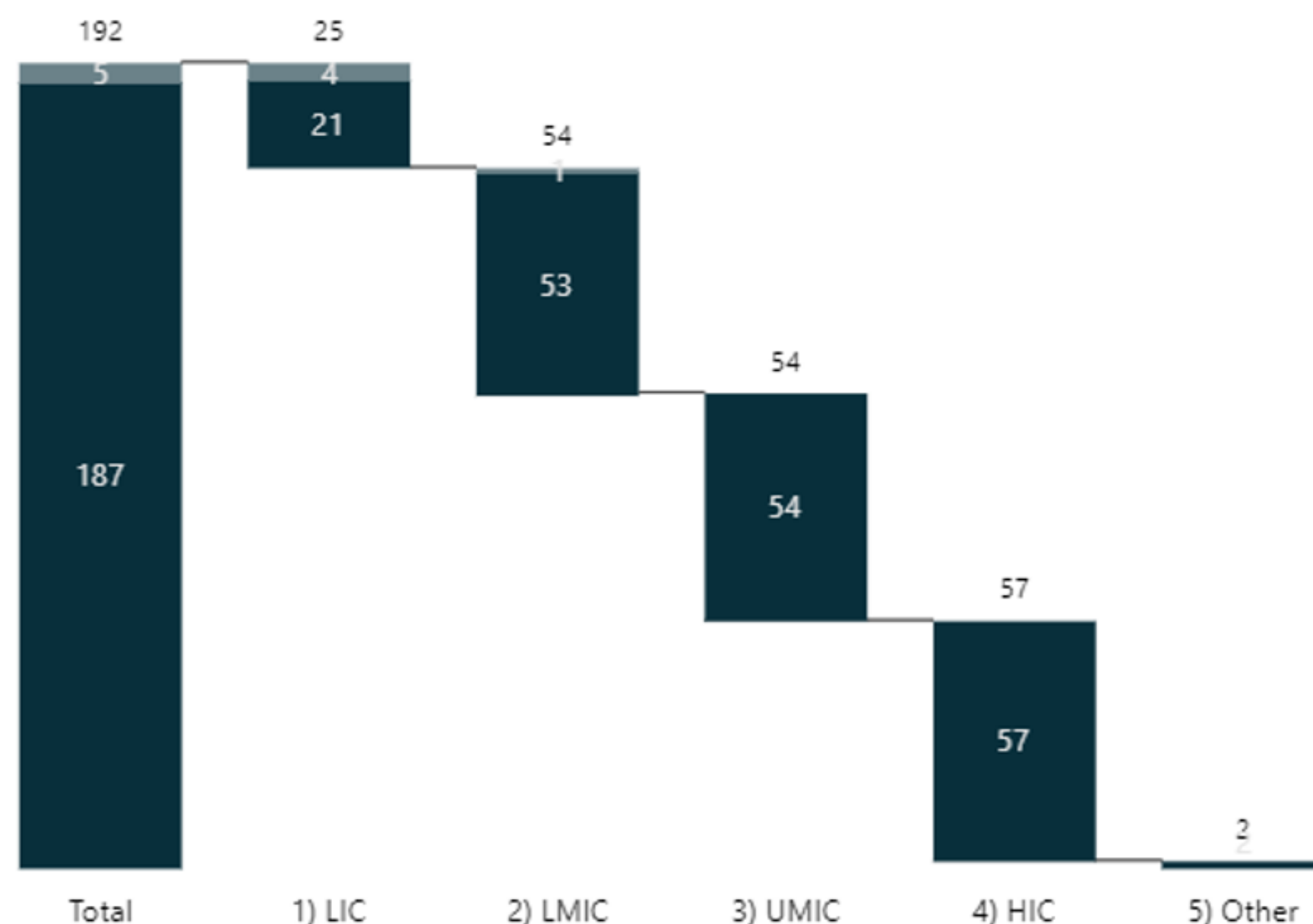
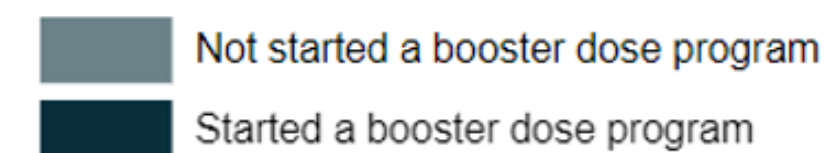


# 187 WHO Member States have COVID-19 vaccine booster / additional doses programs; some lower income countries do not

Status of COVID-19 boosters/additional dose programmes, # of WHO Member States

Per income group

Per WHO region



**Sources:** WHO COVID-19 vaccine administration data system, WHO Regional Offices. | **Notes:** DPR Korea and Eritrea are excluded as they are not vaccinating against COVID-19.



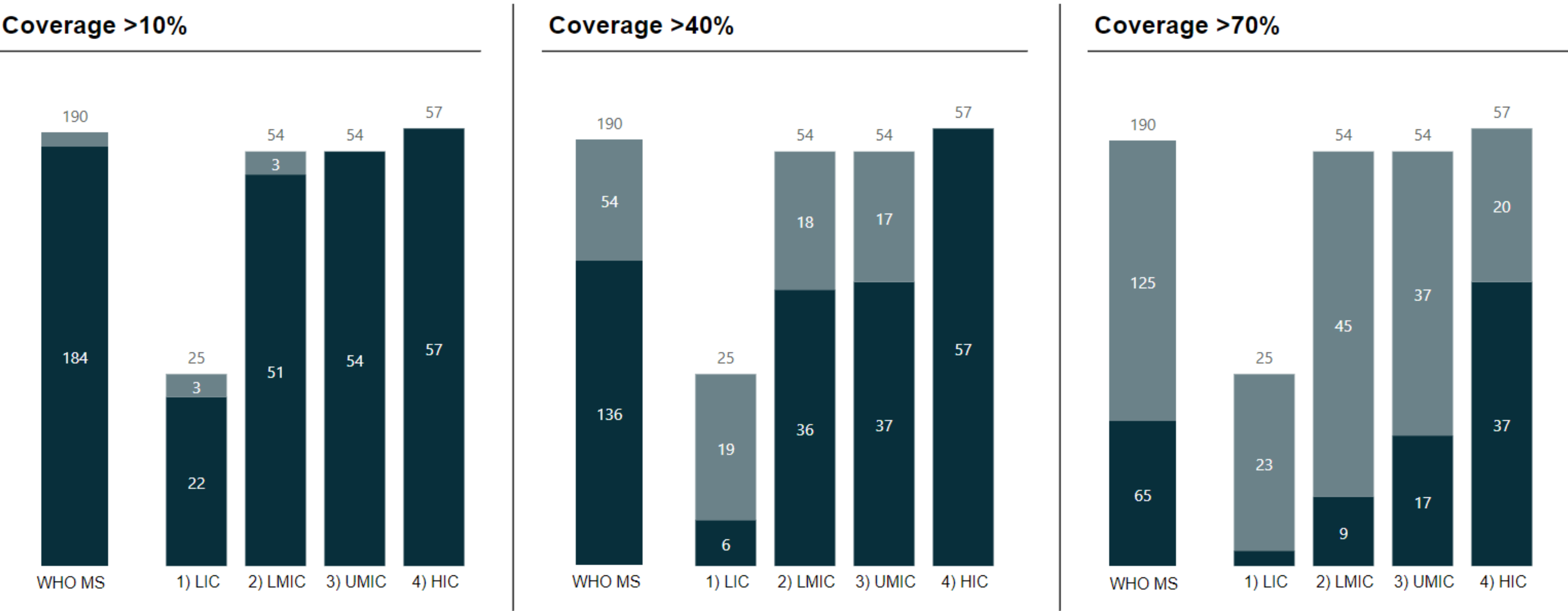
# 6 LICs (out of 25) have achieved 40% COVID-19 immunization coverage as of 24 February

Population coverage

COVID-19 vaccination coverage of WHO Member states, per income group (# of MS)

Have not reached the ambition

Reached the ambition



**Source:** WHO COVID-19 vaccine administration data system. | **Notes:** DPR Korea and Eritrea are excluded as they are not vaccinating against COVID-19. Cook Islands and Niue are excluded as they are not categorized in an income group by the World Bank.

## **II. COVAX AMC portfolio analysis**

# Aggregate vaccine implementation figures across AMC participants

## Administration

| Current | 1-Month Change |                                                                                                      |
|---------|----------------|------------------------------------------------------------------------------------------------------|
| 5.0bn   | 5M             | Total number of vaccine doses administered across AMC participants <b>since implementation start</b> |
| 2.4bn   | 3M             | Total number of individuals with <b>at least one dose</b> across AMC participants                    |
| 2.2bn   | 3M             | Total number of individuals with <b>a complete primary series</b> across AMC participants            |
| 642.0M  | 2M             | Total number of individuals with <b>at least one booster dose</b> across AMC participants            |
| 0.01%   | 0%             | Median 4-week average daily vaccination rate across AMC participants                                 |

## Supply

|             |             |                                                                                              |
|-------------|-------------|----------------------------------------------------------------------------------------------|
| 62%         | -0%         | Median number of vaccine courses received as a percent of population across AMC participants |
| Forthcoming | Forthcoming | Number of AMC participants that have received supply of product with improved attributes     |

## Financing

|      |   |                                                                                             |
|------|---|---------------------------------------------------------------------------------------------|
| 3.20 | 0 | Median external allocated financing for vaccine delivery per capita across AMC participants |
|------|---|---------------------------------------------------------------------------------------------|

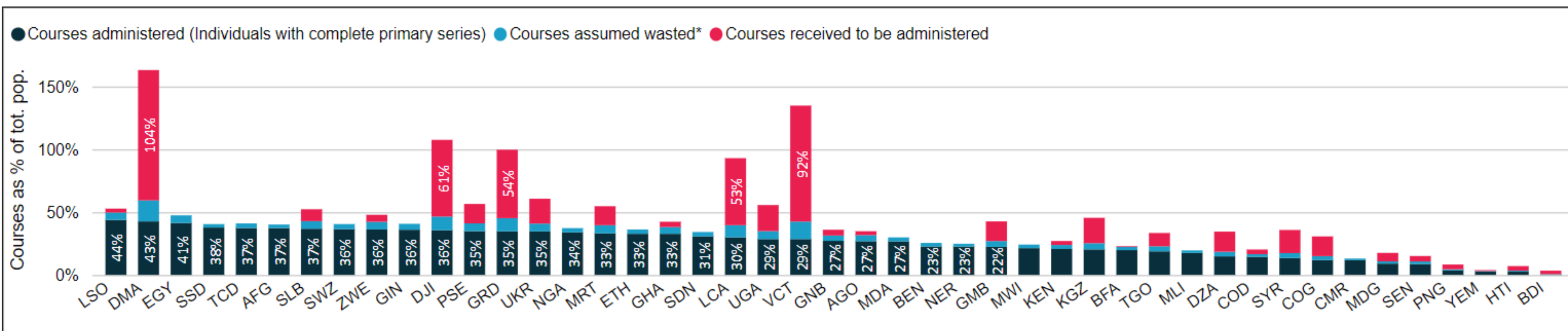
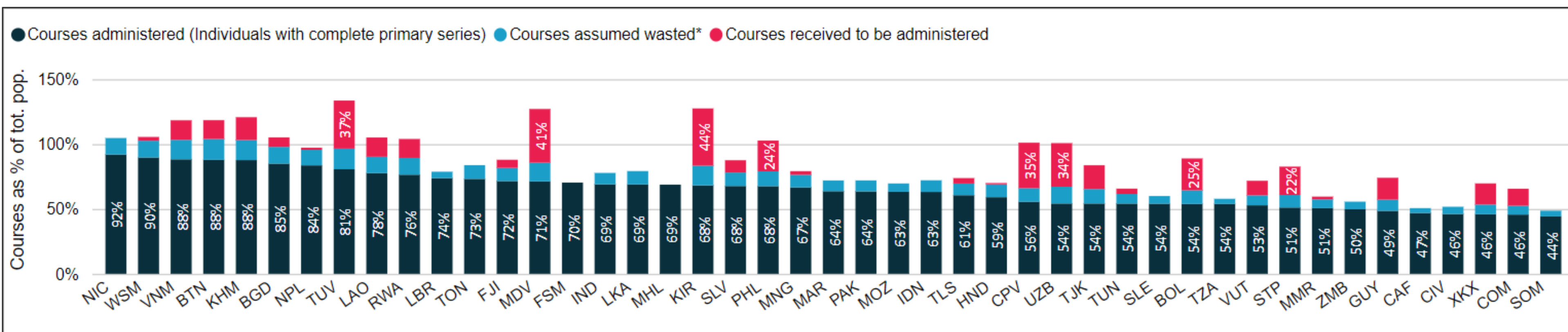
## Coverage

| Current                         | 1-Month Change |                                                                                                               |
|---------------------------------|----------------|---------------------------------------------------------------------------------------------------------------|
| <u>Health care workers</u>      |                |                                                                                                               |
| 72                              | 0              | Number of AMC participants that have reported at least once on <b>healthcare worker</b> primary series uptake |
| 82%                             | 0%             | Aggregate complete primary series coverage of <b>healthcare workers</b> across AMC participants               |
| <u>Older adults</u>             |                |                                                                                                               |
| 75                              | 0              | Number of AMC participants that have reported at least once on <b>older adult</b> primary series uptake       |
| 69 %                            | -0%            | Aggregate complete primary series coverage of <b>older adults</b> across AMC participants                     |
| <u>Total population</u>         |                |                                                                                                               |
| 55 %                            | -0%            | Aggregate complete primary series coverage across AMC participants                                            |
| 16%                             | -0%            | Aggregate coverage with at least one booster across AMC participants                                          |
| <u>Humanitarian populations</u> |                |                                                                                                               |
| Forthcoming                     | Forthcoming    | Aggregate complete primary series coverage across areas with people in need of humanitarian assistance        |

**Sources:** IMF-WHO COVID-19 Vaccine Supply Tracker; UNICEF COVID-19 Vaccine Market Dashboard; WHO COVID-19 vaccine administration data | **Notes:** A vaccine course is the number of doses required for a given product for its primary series.



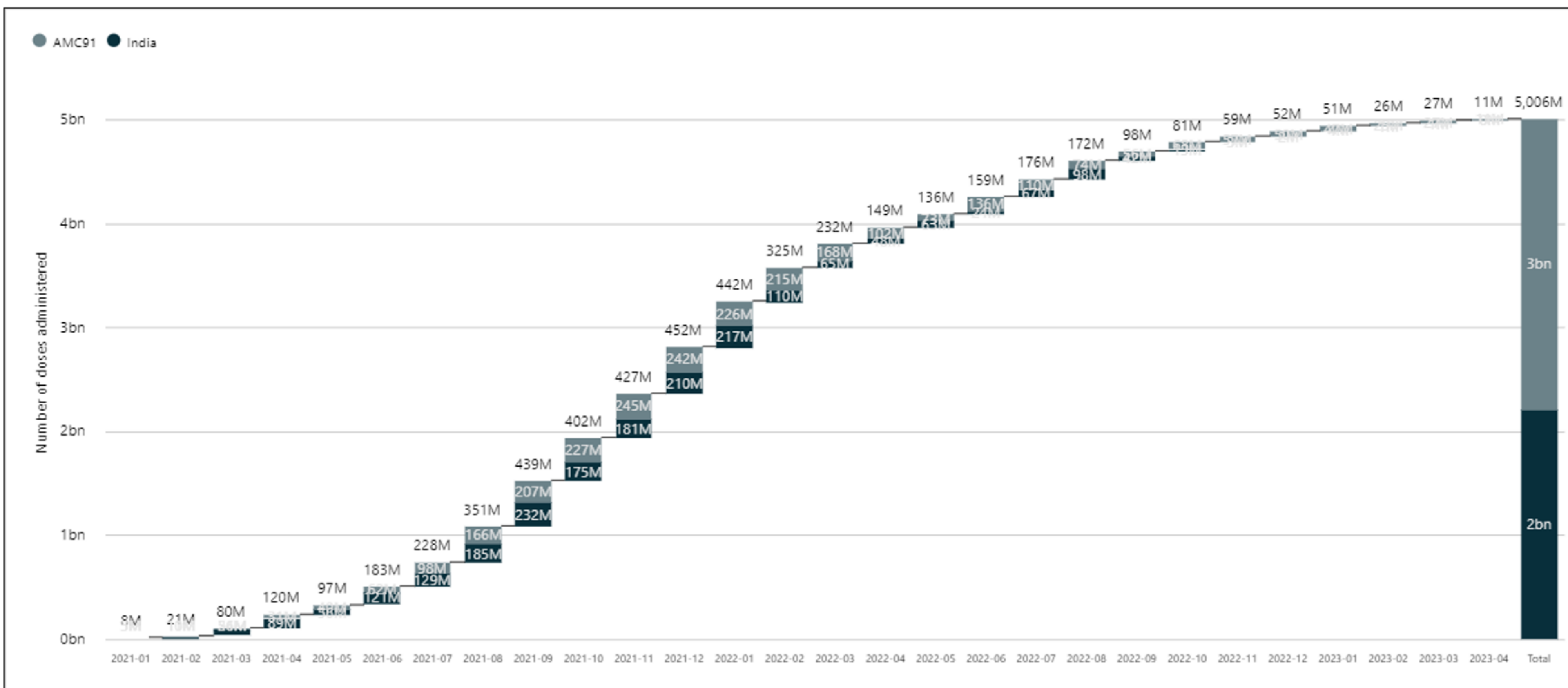
# Vaccine courses administered and received as percentage of total population across AMC participants



**Sources:** IMF-WHO COVID-19 Vaccine Supply Tracker; UNICEF COVID-19 Vaccine Market Dashboard; WHO C19 vaccine administration data | **Notes:** \* standard 10% wastage assumption. A vaccine course is equivalent to the number of doses required of a product for full schedule administration. ERI and DPK are not vaccinating; MHL and FSM are not reflected in the UNICEF Market Dashboard.

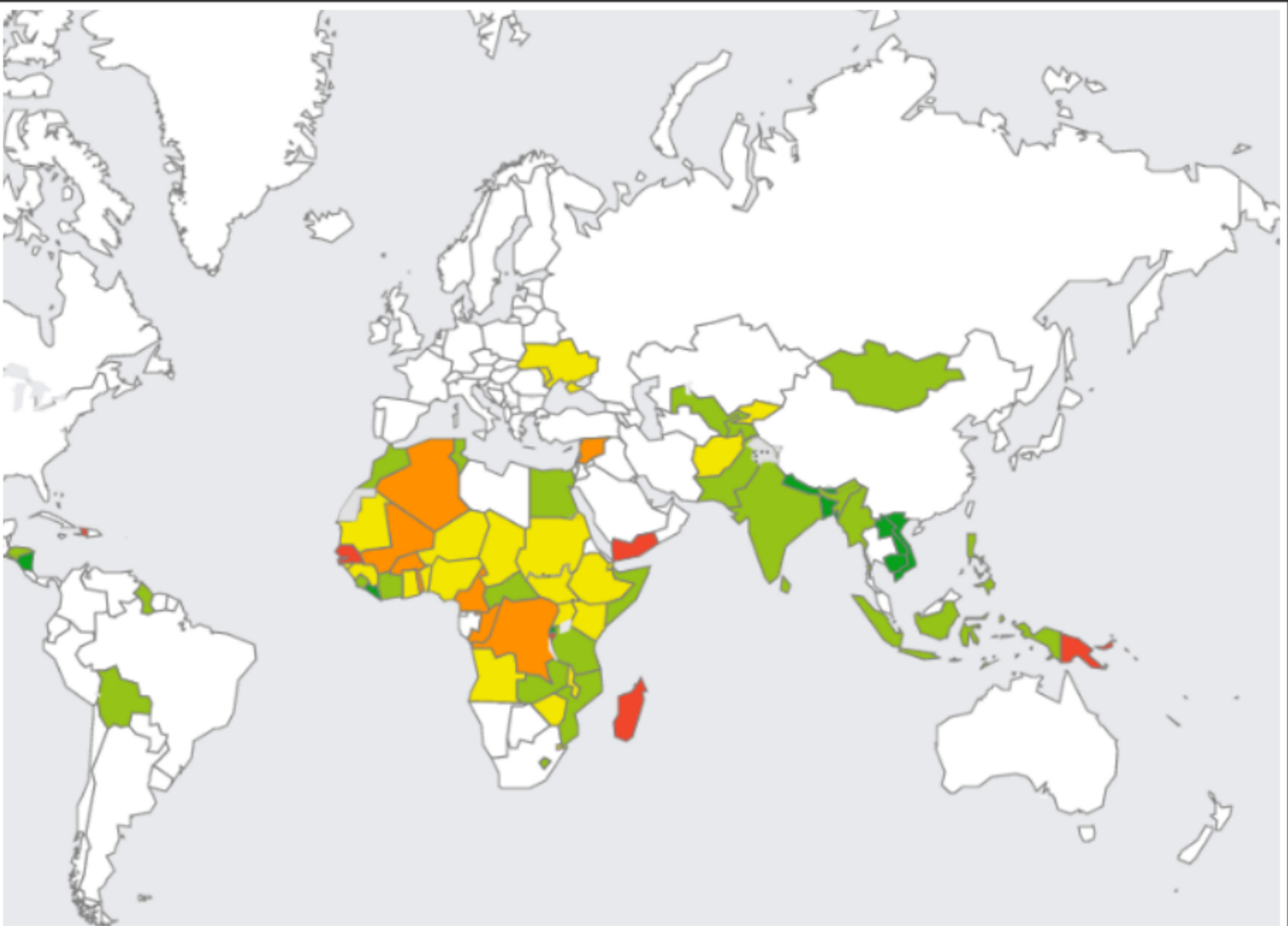


# Aggregate, historical dose absorption by month across the AMC participant portfolio for the January 2021 - April 2023 period

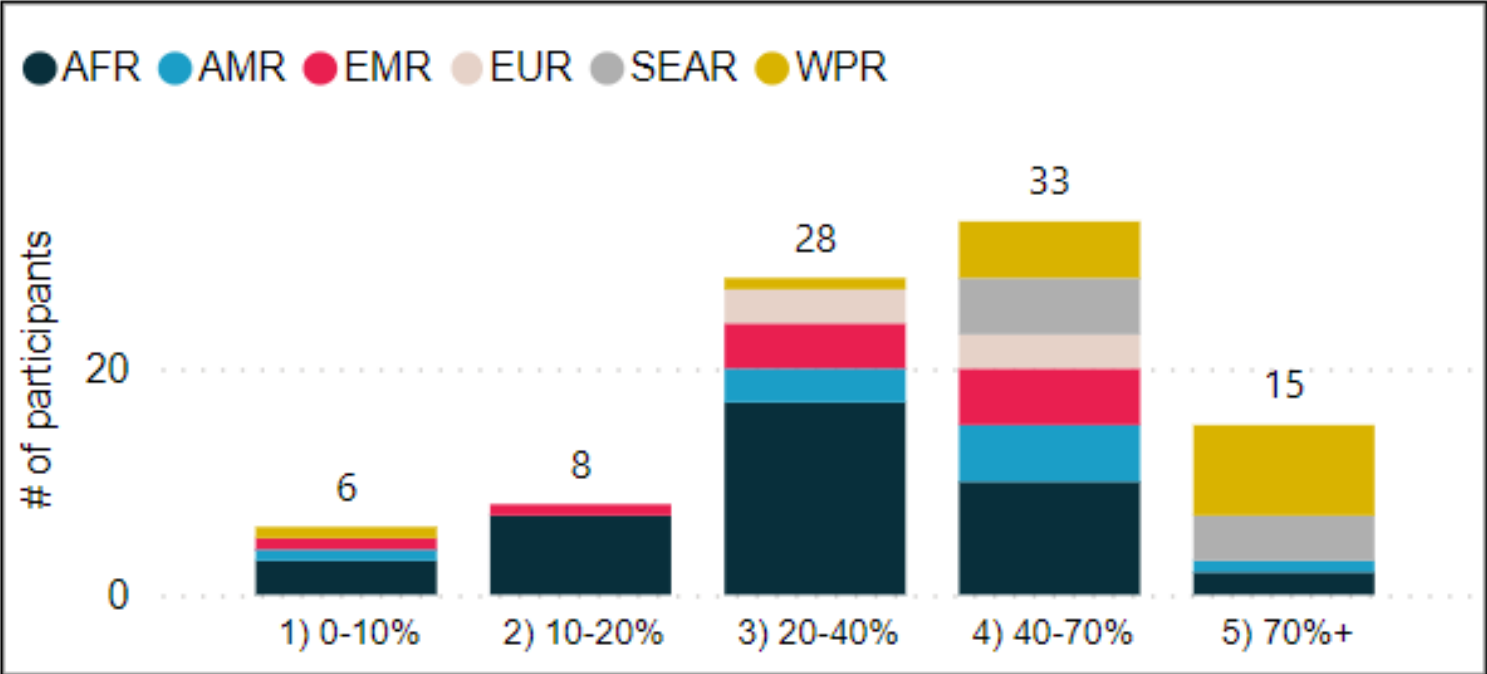


**Source:** WHO COVID-19 vaccine administration data system | **Notes:** Eritrea and DPR Korea have not started COVID-19 vaccination.

# Complete primary series coverage across AMC participants



Participant count by complete primary series coverage category



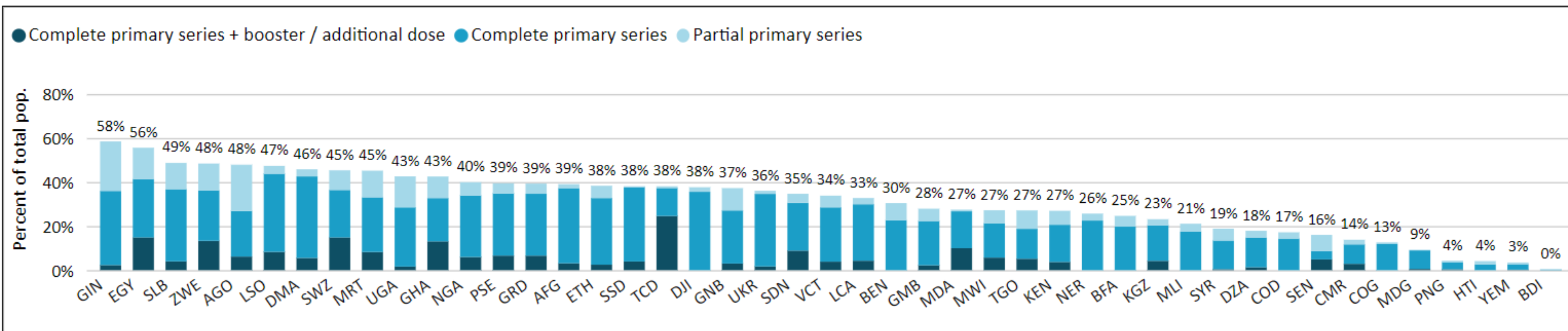
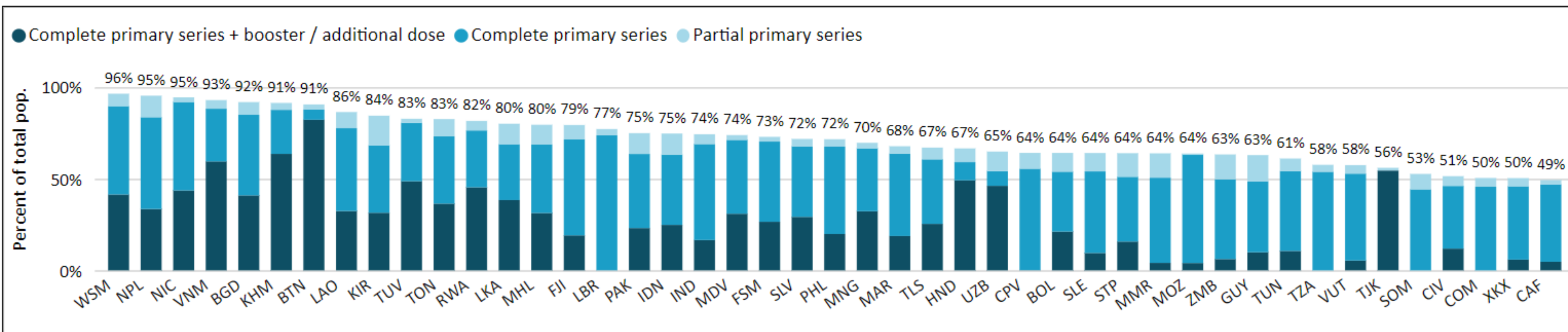
Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. pop.) | Complete primary series coverage (% of tot. pop.) | First booster coverage (% of tot. pop.) |
|--------|----------------|---------------------------------------------|---------------------------------------------------|-----------------------------------------|
| AFR    | 39             | 36 %                                        | 30 %                                              | 5 %                                     |
| AMR    | 10             | 55 %                                        | 50 %                                              | 26 %                                    |
| EMR    | 11             | 57 %                                        | 48 %                                              | 15 %                                    |
| EUR    | 6              | 47 %                                        | 42 %                                              | 22 %                                    |
| SEAR   | 9              | 76 %                                        | 69 %                                              | 20 %                                    |
| WPR    | 15             | 79 %                                        | 75 %                                              | 38 %                                    |
| Total  | 90             | 62 %                                        | 55 %                                              | 17 %                                    |

\* Complete primary series: One or two doses according to country policy | Source: WHO COVID-19 vaccine administration data system | Notes: Eritrea and DPR Korea have not started COVID-19 vaccination.



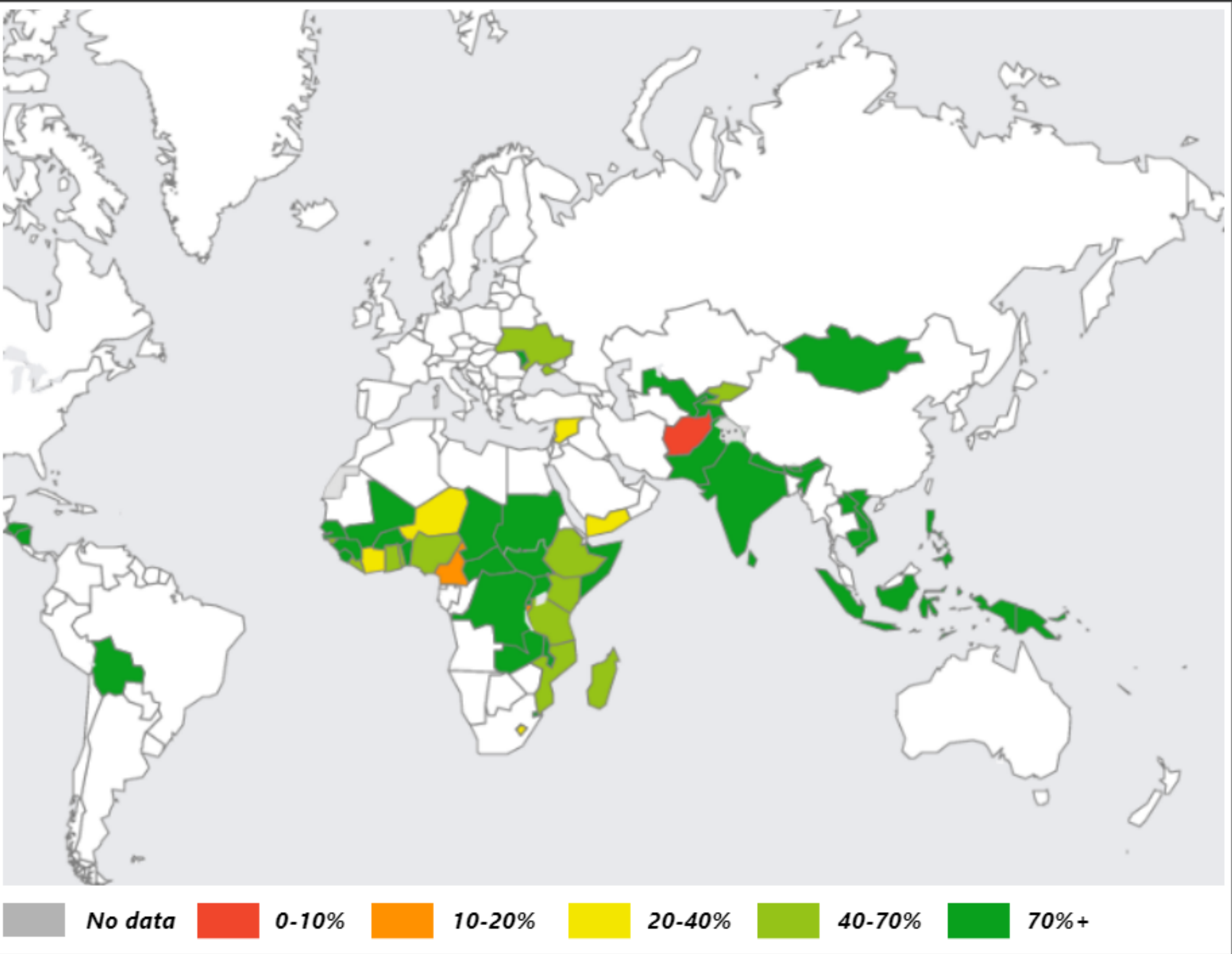
# Coverage of partial primary series, complete primary series, and complete primary series + booster / additional dose across AMC participants



\* Complete primary series: One or two doses according to country policy | **Source:** WHO COVID-19 vaccine administration data system | **Notes:** Eritrea and DPR Korea have not started COVID-19 vaccination.



# Healthcare worker vaccination coverage in reporting AMC participants



## Aggregate view across AMC participants

- 72 Number of AMC participants having reported at least once on healthcare worker vaccination coverage
- 19M Number of healthcare workers in reporting AMC participants
- 88 % Percent of healthcare workers in reporting AMC participants of total healthcare workers in all AMC
- 82 % Percent of total healthcare workers with a complete primary series across reporting AMC participants

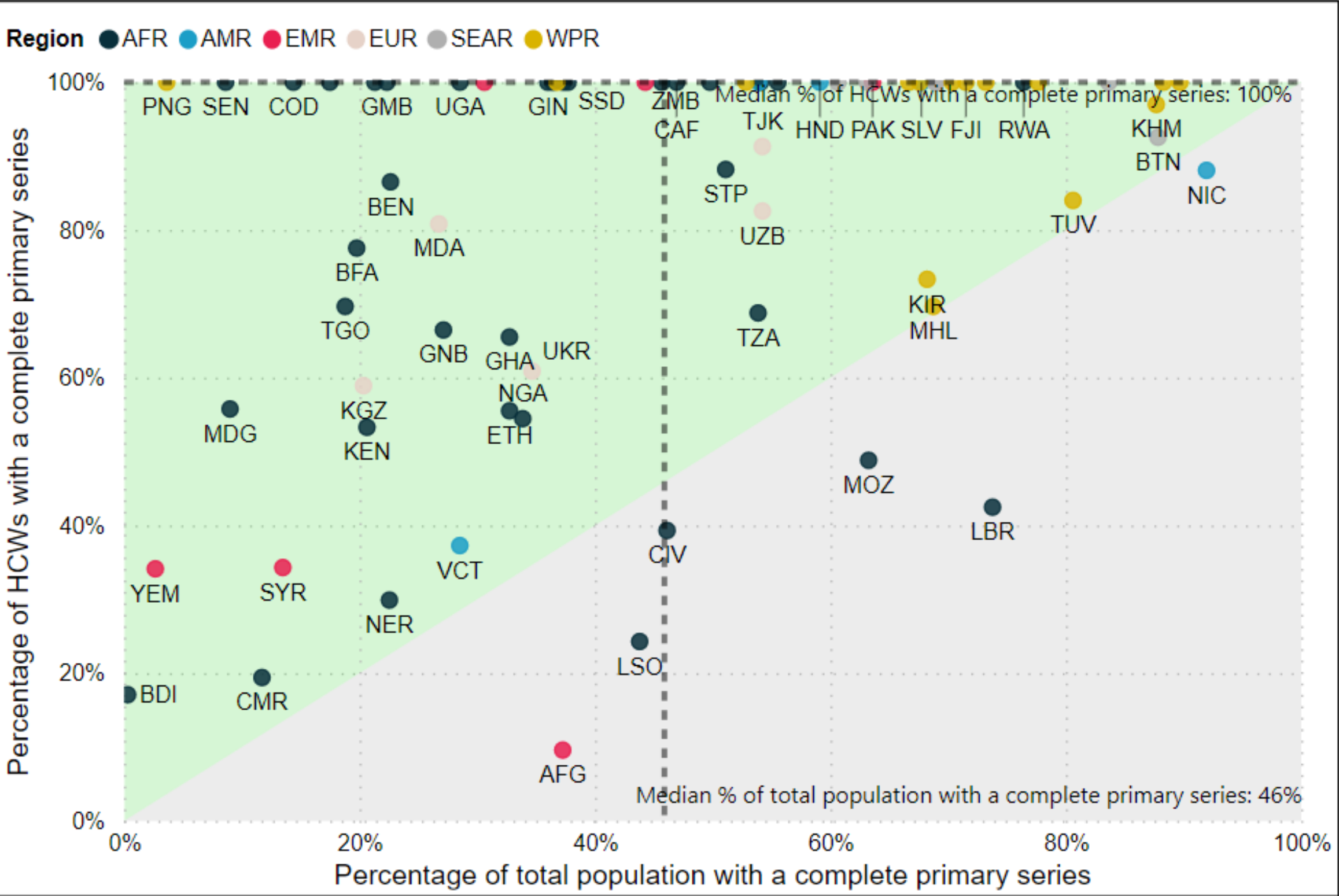
## Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. HCW pop.) | Complete primary series coverage (% of tot. healthcare worker pop.) | First booster coverage (% of tot. healthcare worker pop.) |
|--------|----------------|-------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|
| AFR    | 34             | 78 %                                            | 64 %                                                                | 11 %                                                      |
| AMR    | 5              | 98 %                                            | 98 %                                                                | 76 %                                                      |
| EMR    | 7              | 60 %                                            | 59 %                                                                | 45 %                                                      |
| EUR    | 5              | 71 %                                            | 70 %                                                                | 16 %                                                      |
| SEAR   | 6              | 100 %                                           | 100 %                                                               | 99 %                                                      |
| WPR    | 15             | 100 %                                           | 100 %                                                               | 50 %                                                      |
| Total  | 72             | 86 %                                            | 82 %                                                                | 57 %                                                      |

\* Complete primary series: One or two doses according to country policy | Sources: WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data



# Comparison of complete primary series coverage in total population and healthcare workers across reporting AMC participants



65 Number of AMC participants with complete primary series coverage of healthcare workers **greater** than total

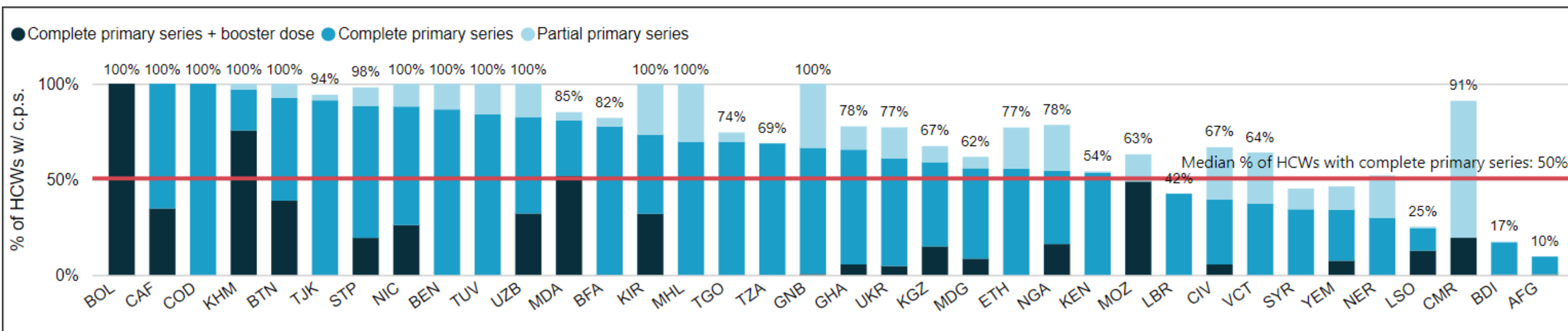
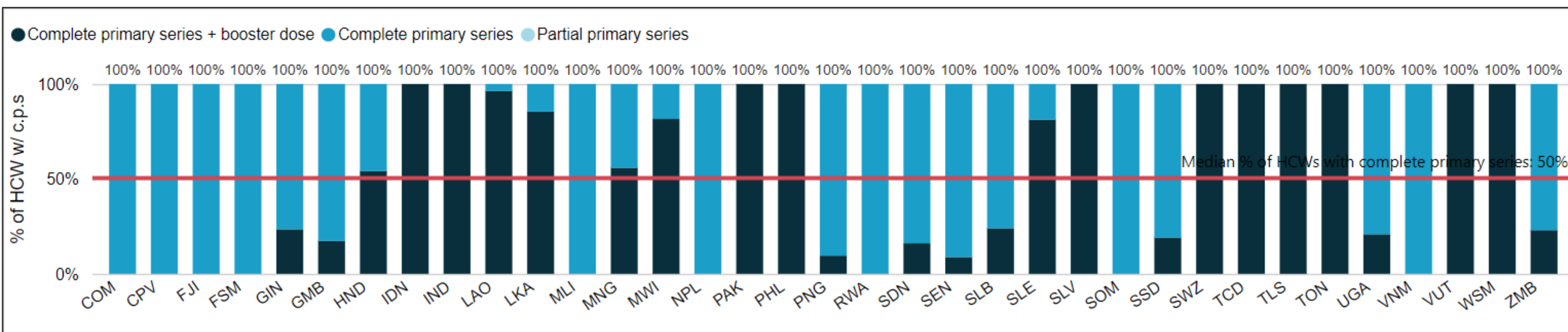
6 Number of AMC participants with complete primary series coverage of healthcare workers **lesser** than total

| Comparison                                                                                      | Participants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AMC participants with complete primary series coverage of healthcare workers lesser than total  | Afghanistan; Côte d'Ivoire; Liberia; Lesotho; Mozambique; Nicaragua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AMC participants with complete primary series coverage of healthcare workers greater than total | Burundi; Benin; Burkina Faso; Bolivia; Bhutan; CAR; Cameroon; DR Congo; Comoros; Cabo Verde; Ethiopia; Fiji; Micronesia; Ghana; Guinea; Gambia; Guinea-Bissau; Honduras; Indonesia; India; Kenya; Kyrgyzstan; Cambodia; Kiribati; Laos; Sri Lanka; Republic of Moldova; Madagascar; Marshall Islands; Mali; Mongolia; Malawi; Niger; Nigeria; Nepal; Pakistan; Philippines; Papua New Guinea; Rwanda; Sudan; Senegal; Solomon Islands; Sierra Leone; El Salvador; Somalia; South Sudan; Sao Tome & Principe; Eswatini; Syria; Chad; Togo; Tajikistan; Timor-Leste; Tonga; Tuvalu; Tanzania; Uganda; Ukraine; Uzbekistan; Saint Vincent & The Grenadines; Viet Nam; Vanuatu; Samoa; Yemen; Zambia |

**Greater percentage of healthcare workers with complete primary series** **Greater percentage of total population with complete primary series**

\* Complete primary series: One or two doses according to country policy | **Source:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data | **Note:** Percentage of healthcare workers with a complete primary series is capped at 100% in the event the number of individuals reported with a complete primary series is greater than total target population size.

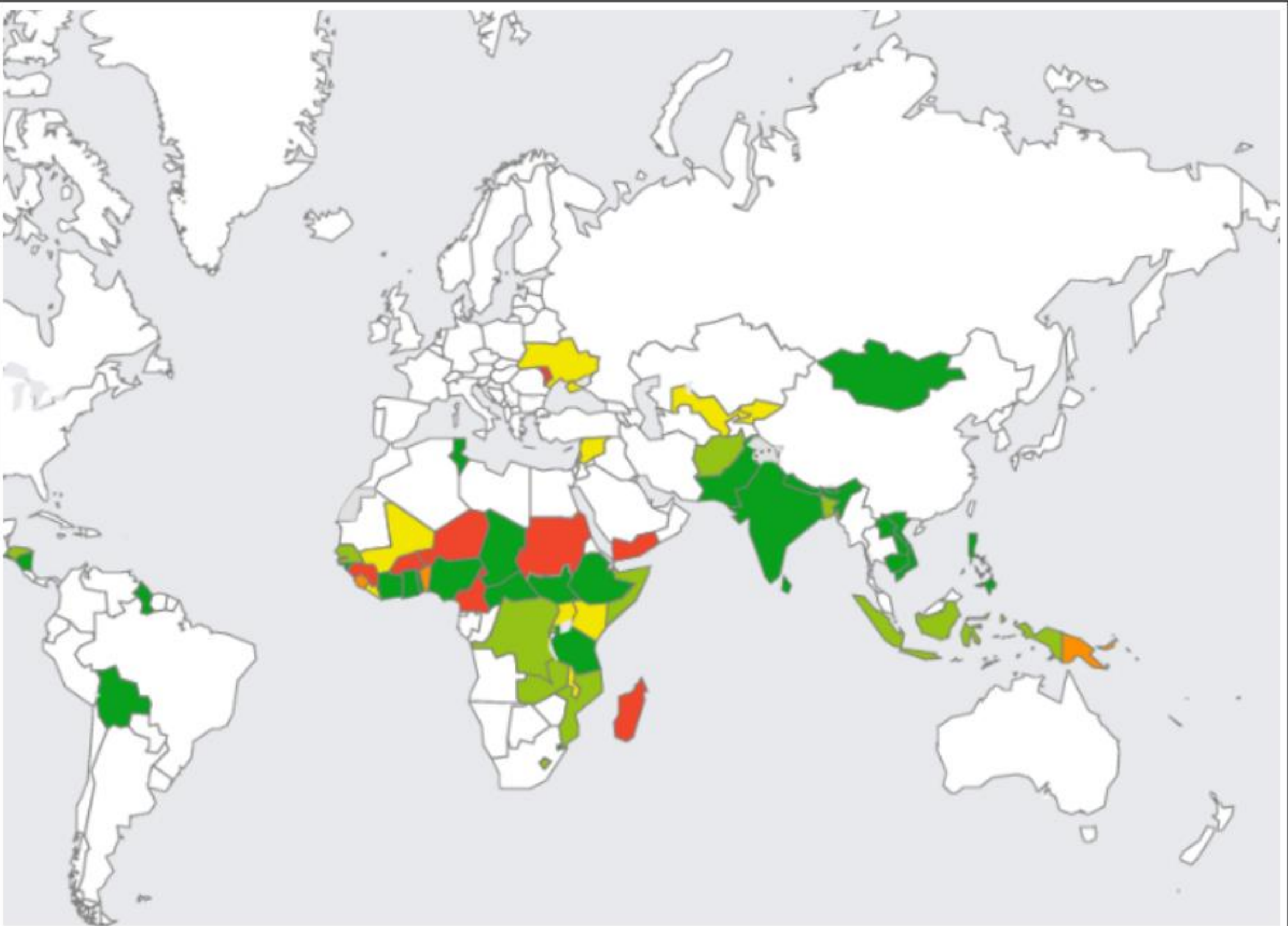
# Coverage of partial primary series, complete primary series, and booster / additional dose of HCW population across AMC participants



\* Complete primary series: One or two doses according to country policy | **Source:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data | **Note:** Percentage of healthcare workers fully vaccinated is capped at 100% in the event the number of individuals reported fully vaccinated is greater than total target population size.



# Older adult vaccination coverage in reporting AMC participants



No data   0-10%   10-20%   20-40%   40-70%   70%+

### Aggregate view across AMC participants

- 75 Number of AMC participants having reported at least once on older adult vaccination coverage
- 306M Number of country-defined older adults in reporting AMC participants
- 91 % Percent of older adults in AMC participants of total older adults in all AMC
- 69 % Percent of older adults with a complete primary series across reporting AMC participants

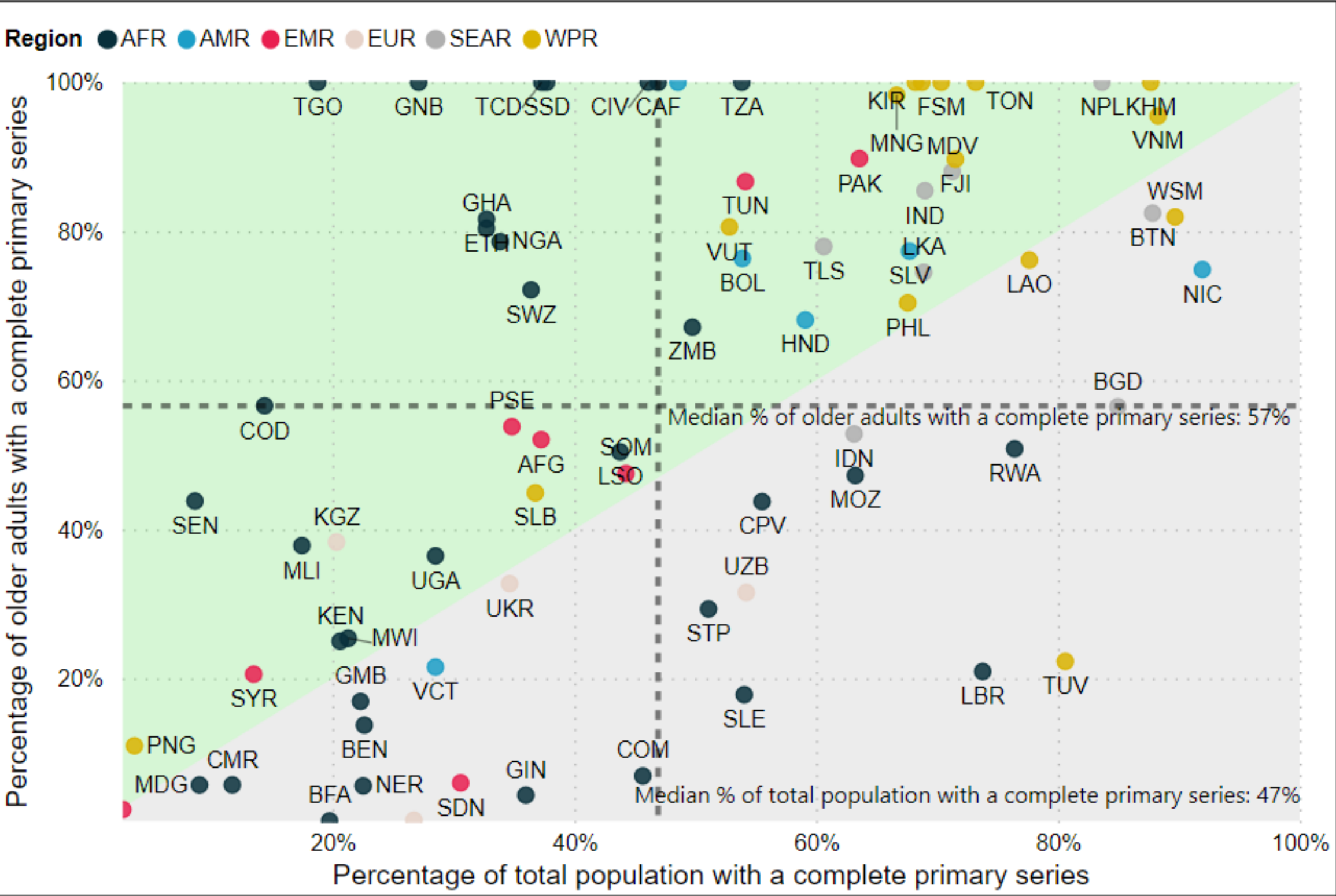
### Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. older adult pop.) | Complete primary series coverage (% of tot. older adult pop.) | First booster coverage (% of tot. older adult pop.) |
|--------|----------------|---------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|
| AFR    | 33             | 66 %                                                    | 55 %                                                          | 7 %                                                 |
| AMR    | 6              | 82 %                                                    | 75 %                                                          | 49 %                                                |
| EMR    | 8              | 61 %                                                    | 58 %                                                          | 20 %                                                |
| EUR    | 5              | 34 %                                                    | 31 %                                                          | 6 %                                                 |
| SEAR   | 8              | 84 %                                                    | 79 %                                                          | 30 %                                                |
| WPR    | 15             | 81 %                                                    | 78 %                                                          | 18 %                                                |
| Total  | 75             | 75 %                                                    | 69 %                                                          | 22 %                                                |

\* Complete primary series: One or two doses according to country policy | Sources: WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data



# Comparison of complete primary series coverage in total population and older adults across reporting AMC participants



47 Number of AMC participants with complete primary series coverage of older adults **greater** than total

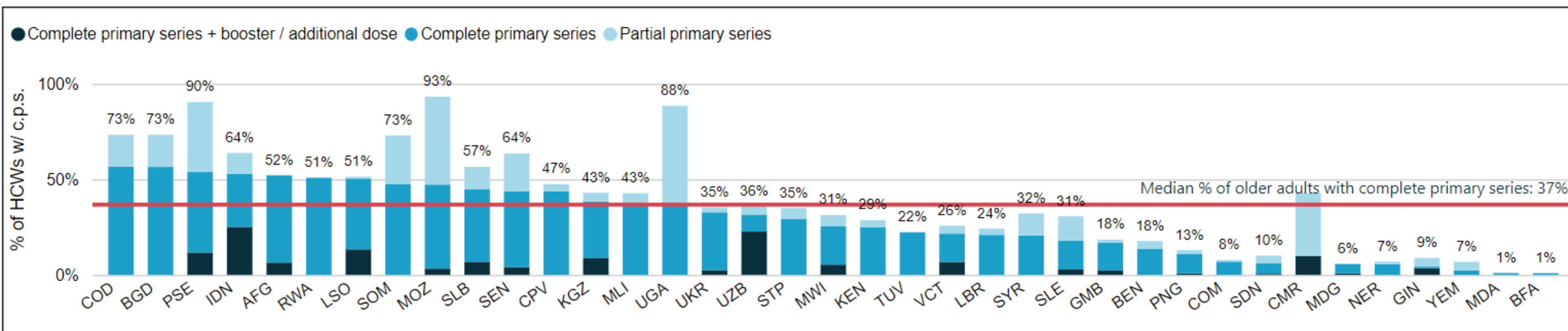
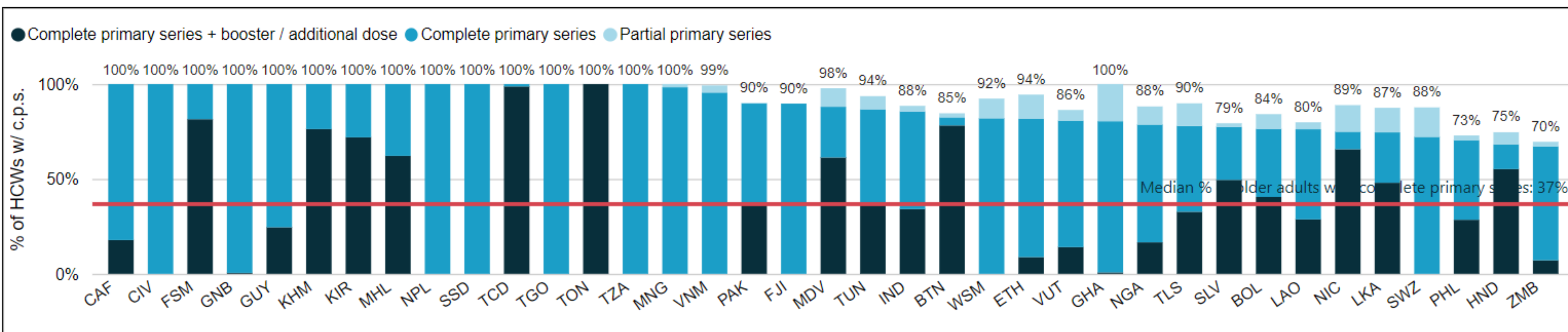
27 Number of AMC participants with complete primary series coverage of older adults **lesser** than total

| Comparison                                                                                | Participants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AMC participants with complete primary series coverage of older adults greater than total | Afghanistan; Bolivia; CAR; Côte d'Ivoire; DR Congo; Ethiopia; Fiji; Micronesia; Ghana; Guinea-Bissau; Guyana; Honduras; India; Kenya; Kyrgyzstan; Cambodia; Kiribati; Sri Lanka; Lesotho; Maldives; Marshall Islands; Mali; Mongolia; Malawi; Nigeria; Nepal; Pakistan; Philippines; Papua New Guinea; West Bank and Gaza; Senegal; Solomon Islands; El Salvador; Somalia; South Sudan; Eswatini; Syria; Chad; Togo; Timor-Leste; Tonga; Tunisia; Tanzania; Uganda; Viet Nam; Vanuatu; Zambia |
| AMC participants with complete primary series coverage of older adults lesser than total  | Benin; Burkina Faso; Bangladesh; Bhutan; Cameroon; Comoros; Cabo Verde; Guinea; Gambia; Indonesia; Laos; Liberia; Republic of Moldova; Madagascar; Mozambique; Niger; Nicaragua; Rwanda; Sudan; Sierra Leone; Sao Tome & Principe; Tuvalu; Ukraine; Uzbekistan; Saint Vincent & The Grenadines; Samoa; Yemen                                                                                                                                                                                  |

Greater percentage of older adults with complete primary series Greater percentage of total population with complete primary series

\* Complete primary series: One or two doses according to country policy | **Source:** WHO/UNICEF eJRF and other monthly regional reporting systems | **Note:** Percentage of older adults with a complete primary series is capped at 100% in the event that the number of individuals reported with a complete primary series is greater than total target population size.

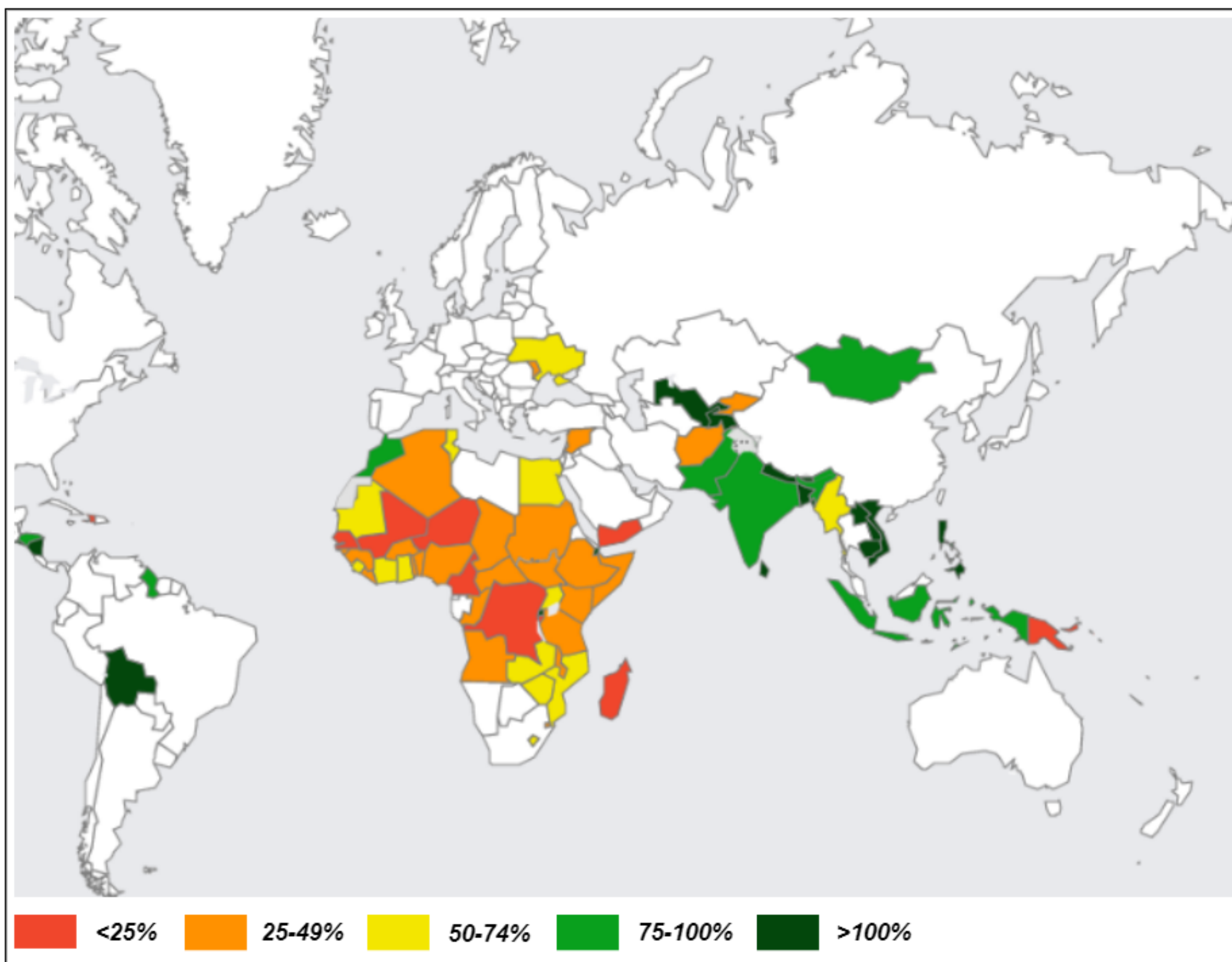
# Coverage of partial primary series, complete primary series, and booster / additional dose of older adult population across AMC participants



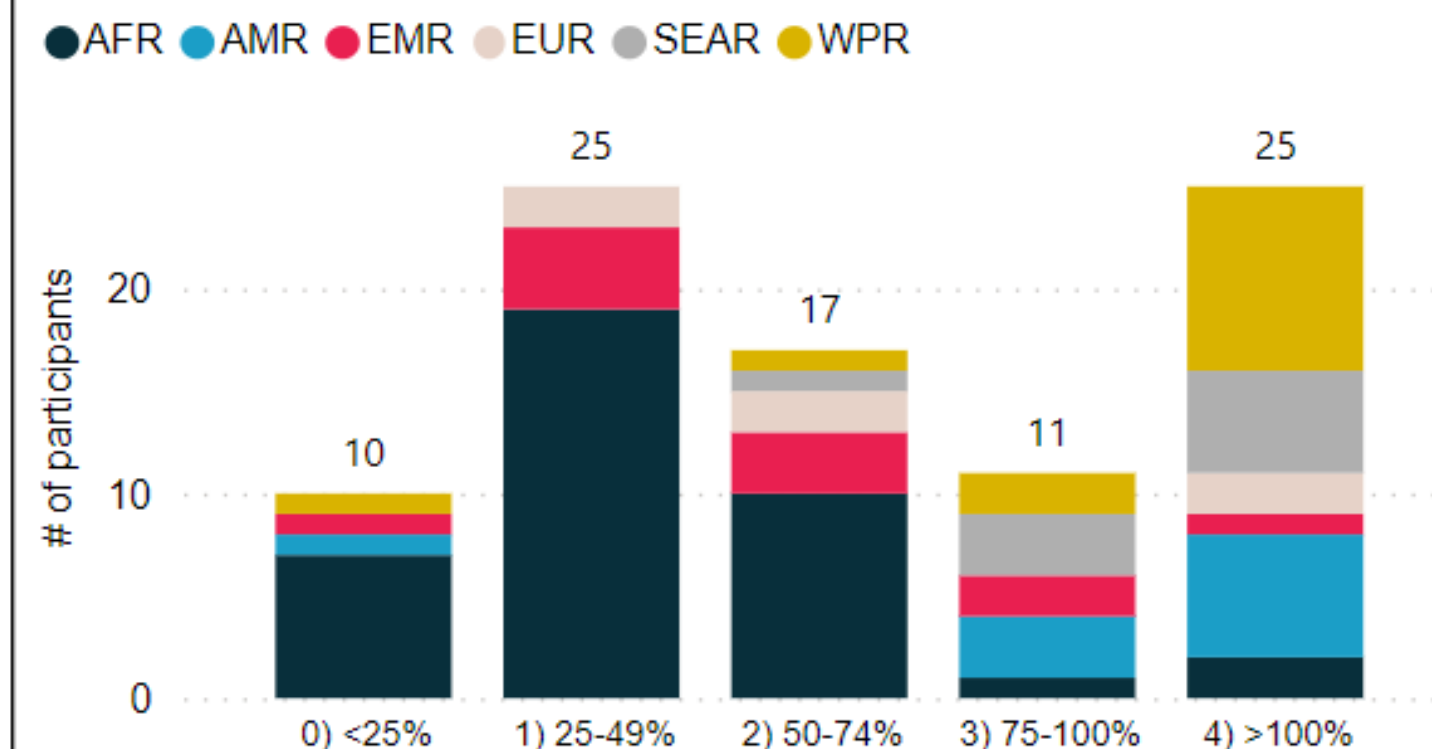
**Source:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data | **Note:** Percentage of older adults fully vaccinated is capped at 100% in the event the number of individuals reported fully vaccinated is greater than total target population size.



# Vaccine courses received as percent of population across AMC participants



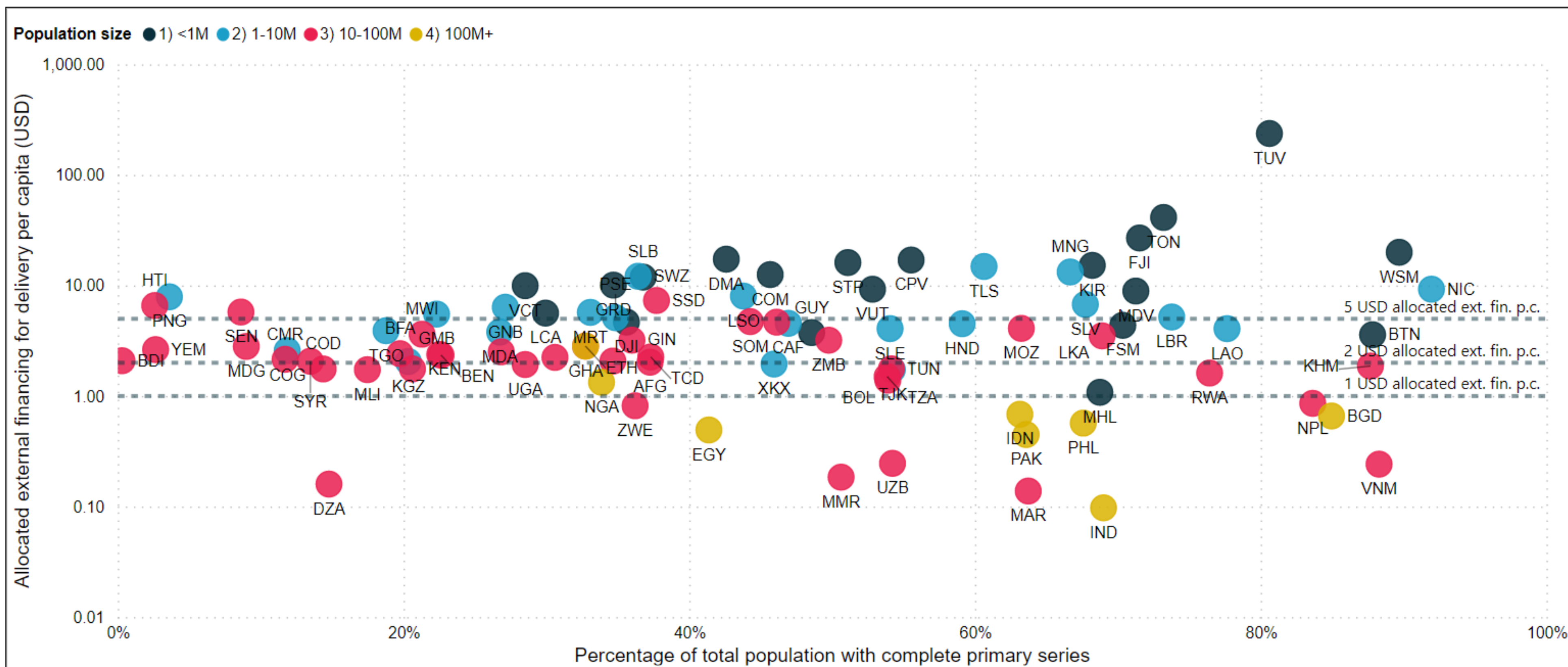
**Participant breakdown by courses received as % pop.**



| Region       | Count of part. | Avg. # of courses received as % pop. | Avg. % of courses received used |
|--------------|----------------|--------------------------------------|---------------------------------|
| AFR          | 39             | 45%                                  | 75%                             |
| AMR          | 10             | 104%                                 | 66%                             |
| EMR          | 11             | 57%                                  | 76%                             |
| EUR          | 6              | 76%                                  | 84%                             |
| SEAR         | 9              | 110%                                 | 94%                             |
| WPR          | 13             | 110%                                 | 86%                             |
| <b>Total</b> | <b>88</b>      | <b>72%</b>                           | <b>78%</b>                      |

**Source:** IMF-WHO COVID-19 Vaccine Supply Tracker; UNICEF COVID-19 Vaccine Market Dashboard | **Notes:** A vaccine course is the number of doses required for a given product for its primary series. Eritrea and DPR Korea have not started COVID-19 vaccination. Marshall Islands and Micronesia are not reflected in the UNICEF Market Dashboard.

# Percentage of total population fully vaccinated against allocated external financing per capita across AMC participants

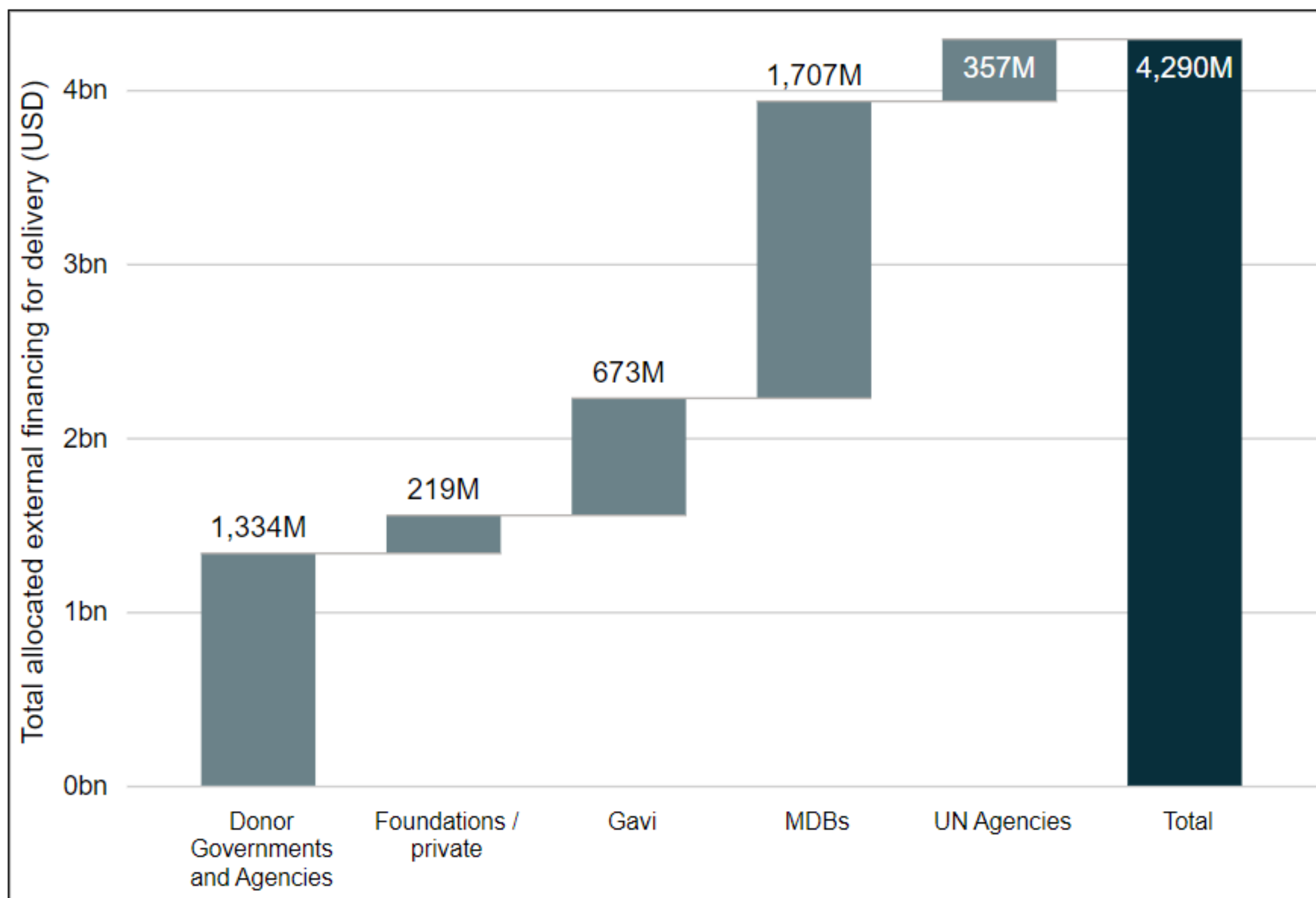


**Source:** UNICEF COVID-19 Vaccine Financial Monitoring Database | **Notes:** Allocated external financing refers to financing earmarked or pledged for a specific country, including both disbursed and non-disbursed financing options.

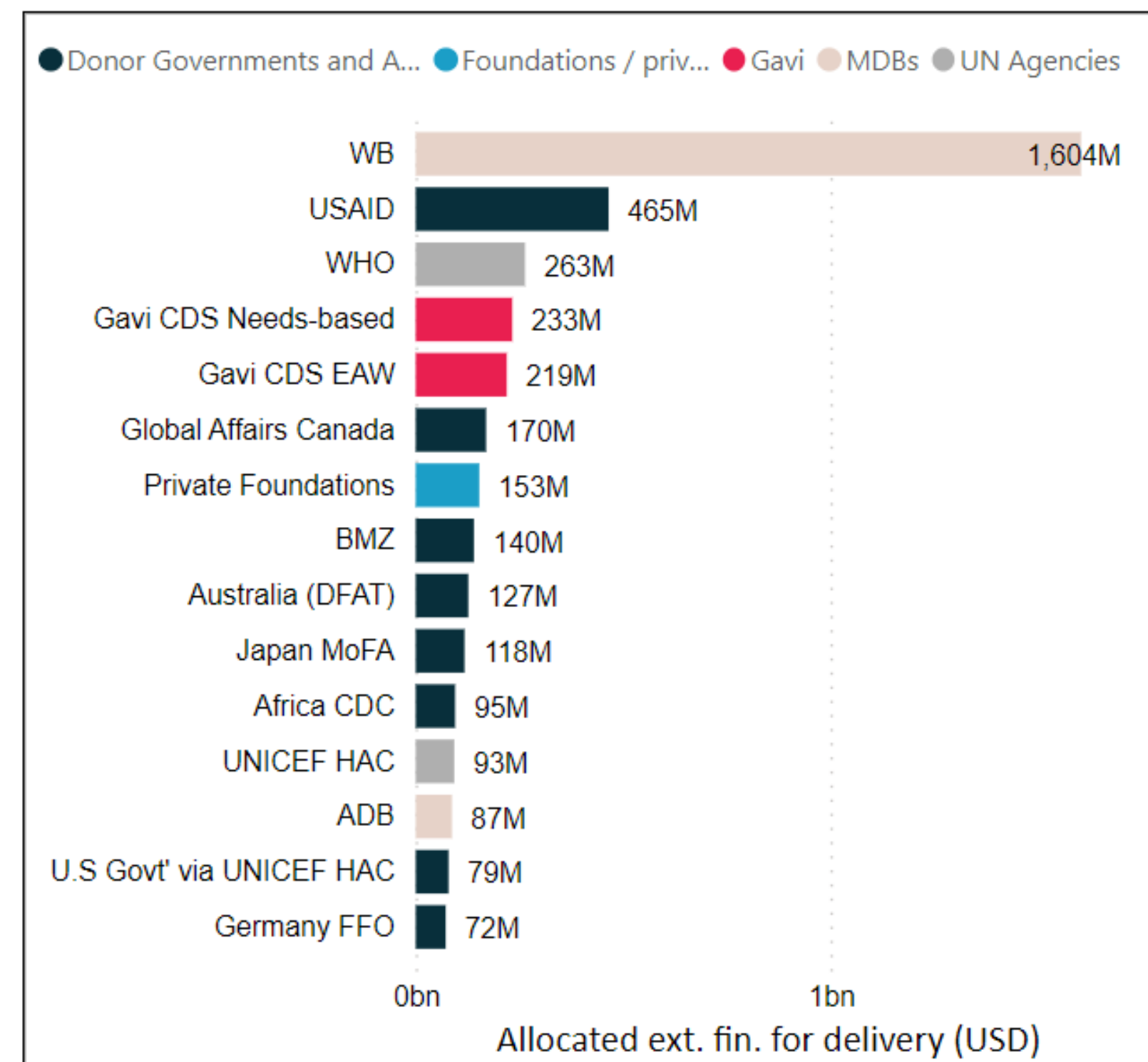


# Breakdown of total allocated external financing for delivery by funder type and funder across AMC participants

**Breakdown of total allocated external financing (USD) for vaccine delivery by funder category**



**Funders / funding mechanisms (15) with greatest total allocated financing (USD) for vaccine delivery**



**Source:** UNICEF COVID-19 Vaccine Financial Monitoring Database | **Notes:** Allocated external financing refers to financing earmarked or pledged for a specific country, including both disbursed and non-disbursed financing options.

# **III. Countries for Concerted Support Analysis**



# Aggregate vaccine implementation figures across CS countries

## Administration

| Current | 1-Month Change |                                                                                                      |
|---------|----------------|------------------------------------------------------------------------------------------------------|
| 471M    | 3M             | Total number of vaccine doses administered across AMC participants <b>since implementation start</b> |
| 351M    | 2M             | Total number of individuals with <b>at least one dose</b> across AMC participants                    |
| 295M    | 2M             | Total number of individuals with <b>a complete primary series</b> across AMC participants            |
| 40.3M   | 430K           | Total number of individuals with <b>at least one booster dose</b> across AMC participants            |
| 0.01%   | 0%             | Median 4-week average daily vaccination rate across AMC participants                                 |

## Supply

|             |             |                                                                                              |
|-------------|-------------|----------------------------------------------------------------------------------------------|
| 35%         | -0%         | Median number of vaccine courses received as a percent of population across AMC participants |
| Forthcoming | Forthcoming | Number of AMC participants that have received supply of product with improved attributes     |

## Financing

|      |       |                                                                                             |
|------|-------|---------------------------------------------------------------------------------------------|
| 2.83 | +0.01 | Median external allocated financing for vaccine delivery per capita across AMC participants |
|------|-------|---------------------------------------------------------------------------------------------|

## Coverage

| Current                         | 1-Month Change |                                                                                                               |
|---------------------------------|----------------|---------------------------------------------------------------------------------------------------------------|
| <u>Health care workers</u>      |                |                                                                                                               |
| 32                              | 0              | Number of AMC participants that have reported at least once on <b>healthcare worker</b> primary series uptake |
| 54%                             | 0%             | Aggregate complete primary series coverage of <b>healthcare workers</b> across AMC participants               |
| <u>Older adults</u>             |                |                                                                                                               |
| 31                              | 0              | Number of AMC participants that have reported at least once on <b>older adult</b> primary series uptake       |
| 49 %                            | -0%            | Aggregate complete primary series coverage of <b>older adults</b> across AMC participants                     |
| <u>Total population</u>         |                |                                                                                                               |
| 28 %                            | -0%            | Aggregate complete primary series coverage across AMC participants                                            |
| 4%                              | -0%            | Aggregate coverage with at least one booster across AMC participants                                          |
| <u>Humanitarian populations</u> |                |                                                                                                               |
| Forthcoming                     | Forthcoming    | Aggregate complete primary series coverage across areas with people in need of humanitarian assistance        |

**Sources:** IMF-WHO COVID-19 Vaccine Supply Tracker; UNICEF COVID-19 Vaccine Market Dashboard; WHO COVID-19 vaccine administration data | **Notes:** A vaccine course is the number of doses required for a given product for its primary series.



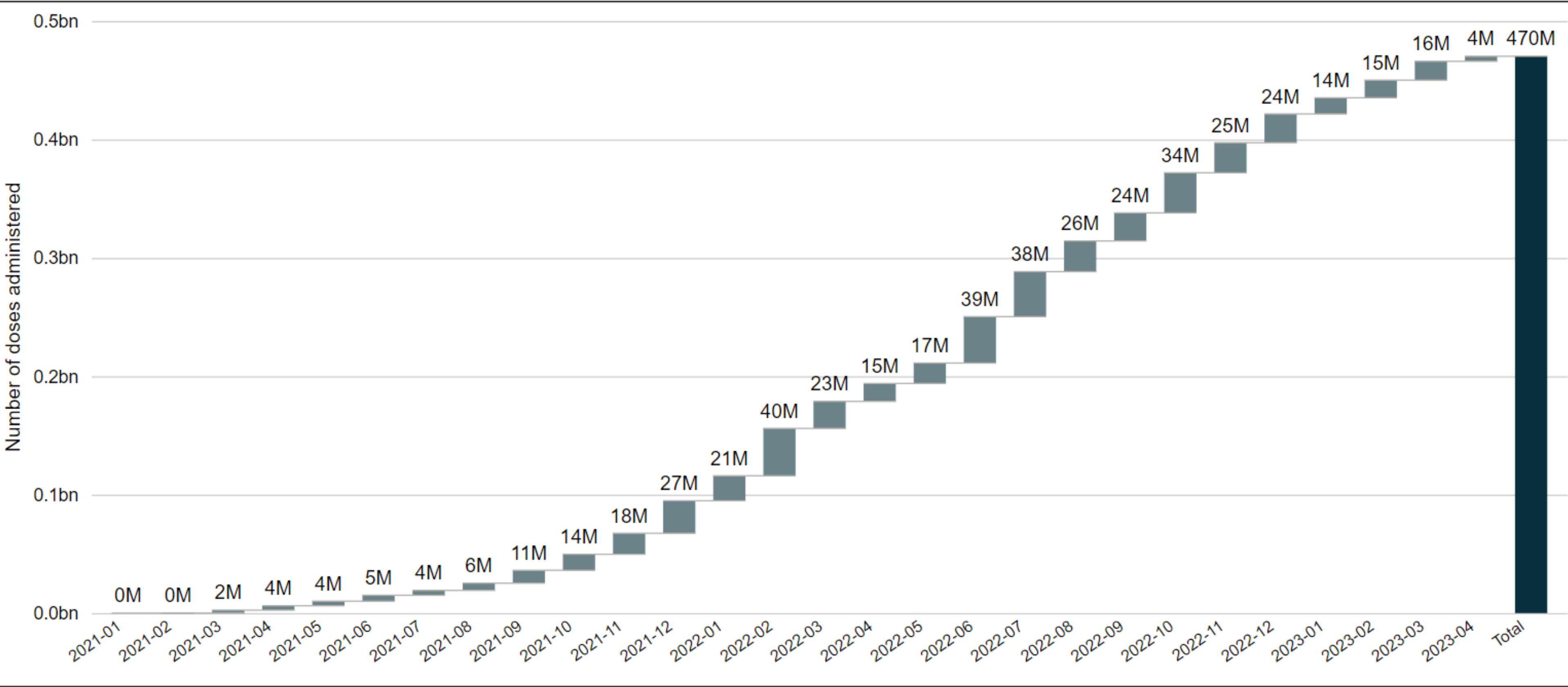
# Key vaccine implementation indicators across CS countries

| Participant      | Latest reporting date | Complete primary series coverage (% of tot. pop.) | First booster coverage (% of tot. pop.) | Complete primary series coverage in healthcare workers (% of tot. HCW pop.) | Complete primary series coverage in older adults (% of tot. older adult pop.) | Courses received used (% of tot. received) | 4-wk av. daily vx rate (% pop. / day) | 4-wk av. daily vx rate trend (past month) | Country cov. target (% of tot. pop.) | Country cov. target deadline | Country cov. target status |
|------------------|-----------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|-------------------------------------------|--------------------------------------|------------------------------|----------------------------|
| Afghanistan      | 21/05/2023            | <div><div></div></div> 37%                        | <div><div></div></div> 3%               | <div><div></div></div> 10%                                                  | <div><div></div></div> 52%                                                    | <div><div></div></div> 89%                 | <div><div></div></div> 0.06%          | Upward                                    | 40%                                  | 31/12/2022                   | Deadline past              |
| Burkina Faso     | 19/03/2023            | <div><div></div></div> 20%                        | <div><div></div></div> 0%               | <div><div></div></div> 78%                                                  | <div><div></div></div> 1%                                                     | <div><div></div></div> 73%                 | <div><div></div></div> 0.14%          | Upward                                    | 70%                                  | 31/12/2022                   | Deadline past              |
| Burundi          | 07/05/2023            | <div><div></div></div> 0%                         | <div><div></div></div> 0%               | <div><div></div></div> 17%                                                  |                                                                               | <div><div></div></div> 15%                 | <div><div></div></div> 0.00%          | Stable                                    | 40%                                  | 31/12/2021                   | Deadline past              |
| Cameroon         | 07/05/2023            | <div><div></div></div> 12%                        | <div><div></div></div> 3%               | <div><div></div></div> 19%                                                  | <div><div></div></div> 6%                                                     | <div><div></div></div> 77%                 | <div><div></div></div> 0.01%          | Downward                                  | 20%                                  | 31/12/2022                   | Deadline past              |
| CAR              | 30/04/2023            | <div><div></div></div> 47%                        | <div><div></div></div> 5%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 100%                                                   | <div><div></div></div> 91%                 | <div><div></div></div> 0.12%          | Stable                                    | 52%                                  | 31/12/2023                   | Off track                  |
| Chad             | 02/04/2023            | <div><div></div></div> 37%                        | <div><div></div></div> 25%              | <div><div></div></div> 100%                                                 | <div><div></div></div> 100%                                                   | <div><div></div></div> 80%                 | <div><div></div></div> 0.47%          | Upward                                    | 48%                                  | 31/12/2022                   | Deadline past              |
| Côte d'Ivoire    | 19/02/2023            | <div><div></div></div> 46%                        | <div><div></div></div> 12%              | <div><div></div></div> 39%                                                  | <div><div></div></div> 100%                                                   | <div><div></div></div> 96%                 | <div><div></div></div> 0.11%          | Upward                                    | 70%                                  | 30/06/2022                   | Deadline past              |
| Djibouti         | 18/04/2023            | <div><div></div></div> 36%                        | <div><div></div></div> 0%               |                                                                             |                                                                               | <div><div></div></div> 28%                 | <div><div></div></div> 0.01%          | Stable                                    | 40%                                  | 01/06/2022                   | Deadline past              |
| DR Congo         | 16/04/2023            | <div><div></div></div> 14%                        | <div><div></div></div> 0%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 57%                                                    | <div><div></div></div> 52%                 | <div><div></div></div> 0.09%          | Upward                                    | 45%                                  | 31/12/2022                   | Deadline past              |
| Ethiopia         | 07/05/2023            | <div><div></div></div> 33%                        | <div><div></div></div> 2%               | <div><div></div></div> 56%                                                  | <div><div></div></div> 82%                                                    | <div><div></div></div> 78%                 | <div><div></div></div> 0.00%          | Stable                                    | 46%                                  | 31/12/2022                   | Deadline past              |
| Gabon            | 05/02/2023            | <div><div></div></div> 12%                        | <div><div></div></div> 0%               | <div><div></div></div> 26%                                                  | <div><div></div></div> 100%                                                   | <div><div></div></div> 37%                 | <div><div></div></div> 0.00%          | Stable                                    | 70%                                  | 31/12/2021                   | Deadline past              |
| Gambia           | 19/03/2023            | <div><div></div></div> 22%                        | <div><div></div></div> 2%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 17%                                                    | <div><div></div></div> 74%                 | <div><div></div></div> 0.00%          | Stable                                    | 60%                                  | 31/12/2023                   | Off track                  |
| Ghana            | 26/03/2023            | <div><div></div></div> 33%                        | <div><div></div></div> 13%              | <div><div></div></div> 66%                                                  | <div><div></div></div> 80%                                                    | <div><div></div></div> 77%                 | <div><div></div></div> 0.00%          | Stable                                    | 72%                                  | 31/12/2023                   | Off track                  |
| Guinea           | 02/04/2023            | <div><div></div></div> 36%                        | <div><div></div></div> 2%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 4%                                                     | <div><div></div></div> 97%                 | <div><div></div></div> 0.00%          | Downward                                  | 63%                                  | 31/12/2023                   | Off track                  |
| Guinea-Bissau    | 23/04/2023            | <div><div></div></div> 27%                        | <div><div></div></div> 3%               | <div><div></div></div> 66%                                                  | <div><div></div></div> 100%                                                   | <div><div></div></div> 58%                 | <div><div></div></div> 0.39%          | Upward                                    | 70%                                  | 31/12/2023                   | On track                   |
| Haiti            | 05/05/2023            | <div><div></div></div> 3%                         | <div><div></div></div> 0%               |                                                                             |                                                                               | <div><div></div></div> 44%                 | <div><div></div></div> 0.00%          | Downward                                  | 70%                                  | 30/06/2022                   | Deadline past              |
| Kenya            | 02/04/2023            | <div><div></div></div> 21%                        | <div><div></div></div> 4%               | <div><div></div></div> 53%                                                  | <div><div></div></div> 25%                                                    | <div><div></div></div> 79%                 | <div><div></div></div> 0.02%          | Upward                                    | 60%                                  | 31/12/2022                   | Deadline past              |
| Madagascar       | 07/05/2023            | <div><div></div></div> 9%                         | <div><div></div></div> 1%               | <div><div></div></div> 56%                                                  | <div><div></div></div> 6%                                                     | <div><div></div></div> 40%                 | <div><div></div></div> 0.01%          | Downward                                  | 51%                                  | 30/06/2023                   | Off track                  |
| Malawi           | 07/05/2023            | <div><div></div></div> 21%                        | <div><div></div></div> 6%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 25%                                                    | <div><div></div></div> 85%                 | <div><div></div></div> 0.11%          | Upward                                    | 70%                                  | 30/06/2023                   | Off track                  |
| Mali             | 16/04/2023            | <div><div></div></div> 17%                        | <div><div></div></div> 0%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 38%                                                    | <div><div></div></div> 79%                 | <div><div></div></div> 0.07%          | Stable                                    | 47%                                  | 31/12/2022                   | Deadline past              |
| Niger            | 12/03/2023            | <div><div></div></div> 23%                        | <div><div></div></div> 0%               | <div><div></div></div> 30%                                                  | <div><div></div></div> 6%                                                     | <div><div></div></div> 77%                 | <div><div></div></div> 0.01%          | Upward                                    | 43%                                  | 31/12/2022                   | Deadline past              |
| Nigeria          | 19/03/2023            | <div><div></div></div> 34%                        | <div><div></div></div> 6%               | <div><div></div></div> 54%                                                  | <div><div></div></div> 79%                                                    | <div><div></div></div> 94%                 | <div><div></div></div> 0.05%          | Stable                                    | 36%                                  | 31/12/2022                   | Deadline past              |
| Papua New Guinea | 14/05/2023            | <div><div></div></div> 4%                         | <div><div></div></div> 0%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 11%                                                    | <div><div></div></div> 43%                 | <div><div></div></div> 0.00%          | Stable                                    | 20%                                  | 31/12/2022                   | Deadline past              |
| Senegal          | 07/05/2023            | <div><div></div></div> 9%                         | <div><div></div></div> 5%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 44%                                                    | <div><div></div></div> 51%                 | <div><div></div></div> 0.00%          | Upward                                    | 53%                                  | 31/12/2022                   | Deadline past              |
| Sierra Leone     | 30/04/2023            | <div><div></div></div> 54%                        | <div><div></div></div> 10%              | <div><div></div></div> 100%                                                 | <div><div></div></div> 18%                                                    | <div><div></div></div> 90%                 | <div><div></div></div> 0.00%          | Downward                                  | 40%                                  | 30/06/2022                   | Goal met                   |
| Solomon Islands  | 30/04/2023            | <div><div></div></div> 37%                        | <div><div></div></div> 4%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 45%                                                    | <div><div></div></div> 84%                 | <div><div></div></div> 0.04%          | Stable                                    | 50%                                  | 31/12/2022                   | Deadline past              |
| Somalia          | 30/04/2023            | <div><div></div></div> 44%                        | <div><div></div></div> 0%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 47%                                                    | <div><div></div></div> 78%                 | <div><div></div></div> 0.04%          | Stable                                    | 40%                                  | 01/12/2022                   | Goal met                   |
| South Sudan      | 07/05/2023            | <div><div></div></div> 38%                        | <div><div></div></div> 4%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 100%                                                   | <div><div></div></div> 81%                 | <div><div></div></div> 0.13%          | Downward                                  | 50%                                  | 31/12/2022                   | Deadline past              |
| Sudan            | 02/04/2023            | <div><div></div></div> 31%                        | <div><div></div></div> 9%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 6%                                                     | <div><div></div></div> 83%                 | <div><div></div></div> 0.33%          | Upward                                    | 20%                                  | 30/06/2022                   | Goal met                   |
| Syria            | 18/04/2023            | <div><div></div></div> 13%                        | <div><div></div></div> 0%               | <div><div></div></div> 34%                                                  | <div><div></div></div> 21%                                                    | <div><div></div></div> 48%                 | <div><div></div></div> 0.01%          | Stable                                    | 70%                                  | 31/12/2022                   | Deadline past              |
| Tanzania         | 12/03/2023            | <div><div></div></div> 54%                        | <div><div></div></div> 0%               | <div><div></div></div> 69%                                                  | <div><div></div></div> 100%                                                   | <div><div></div></div> 93%                 | <div><div></div></div> 0.05%          | Downward                                  | 70%                                  | 30/10/2022                   | Deadline past              |
| Uganda           | 26/03/2023            | <div><div></div></div> 29%                        | <div><div></div></div> 2%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 36%                                                    | <div><div></div></div> 55%                 | <div><div></div></div> 0.00%          | Stable                                    | 67%                                  | 31/12/2022                   | Deadline past              |
| Yemen            | 18/04/2023            | <div><div></div></div> 3%                         | <div><div></div></div> 0%               | <div><div></div></div> 34%                                                  | <div><div></div></div> 2%                                                     | <div><div></div></div> 59%                 | <div><div></div></div> 0.00%          | Upward                                    | 20%                                  | 31/12/2022                   | Deadline past              |
| Zambia           | 09/04/2023            | <div><div></div></div> 50%                        | <div><div></div></div> 6%               | <div><div></div></div> 100%                                                 | <div><div></div></div> 67%                                                    | <div><div></div></div> 73%                 | <div><div></div></div> 0.00%          | Stable                                    | 46%                                  | 31/12/2023                   | Goal met                   |

\* Complete primary series: One or two doses according to country policy | **Sources:** IMF-WHO COVID-19 Vaccine Supply Tracker; UNICEF COVID-19 Vaccine Market Dashboard; WHO C19 vaccine administration data

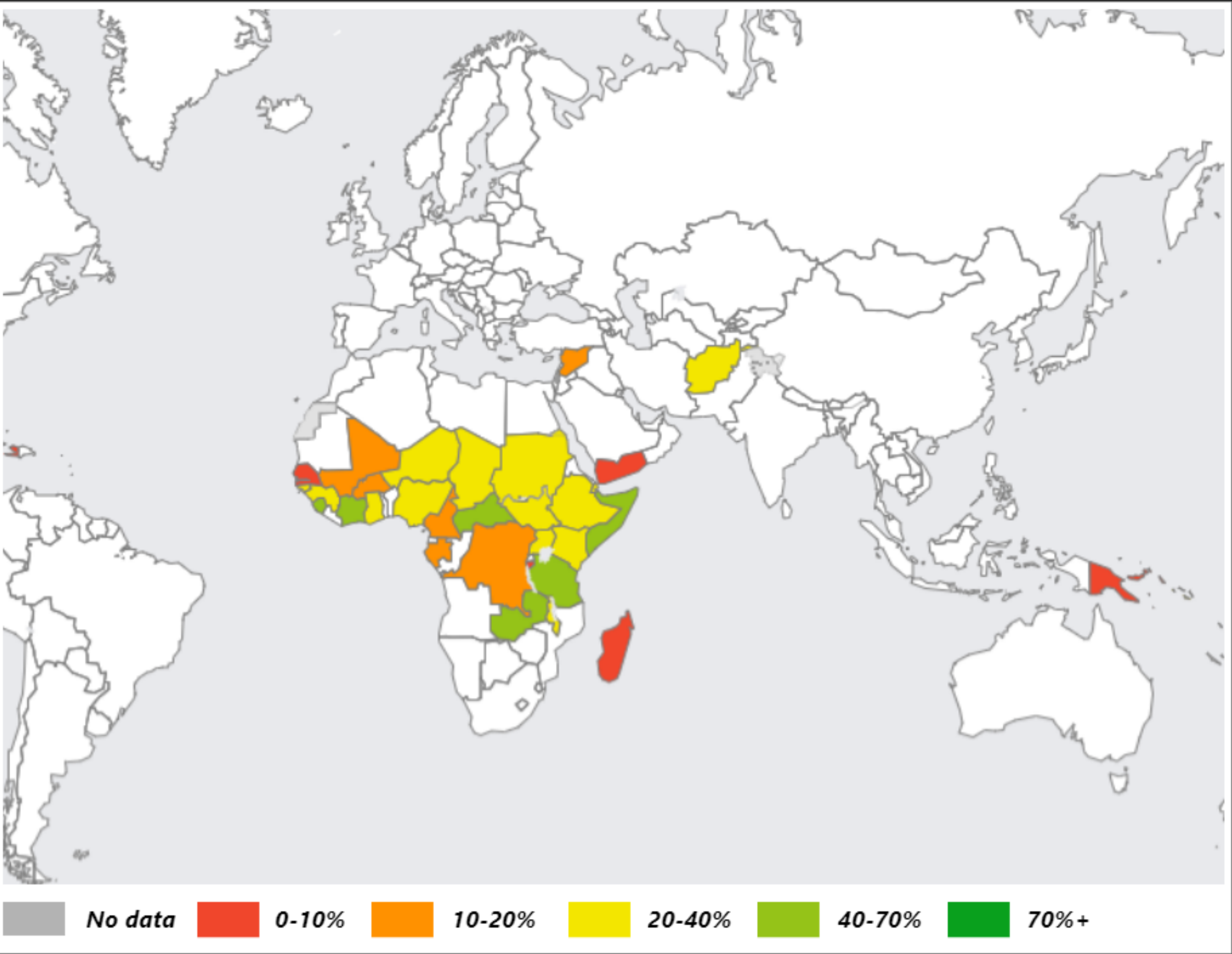


# Aggregate, historical dose absorption by month across the CS countries portfolio for the January 2021 - April 2023 period

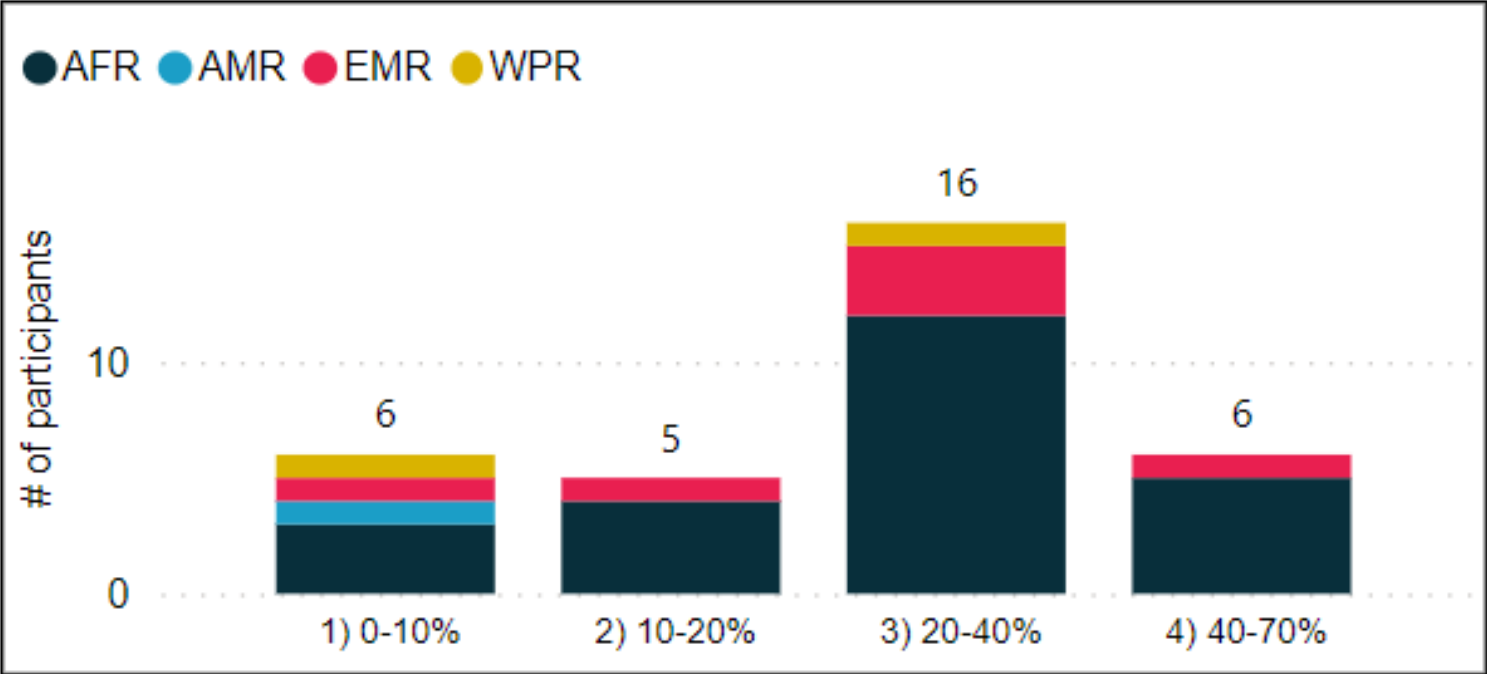


Source: WHO COVID-19 vaccine administration data system

# Complete primary series coverage across CS countries



Participant count by complete primary series coverage category



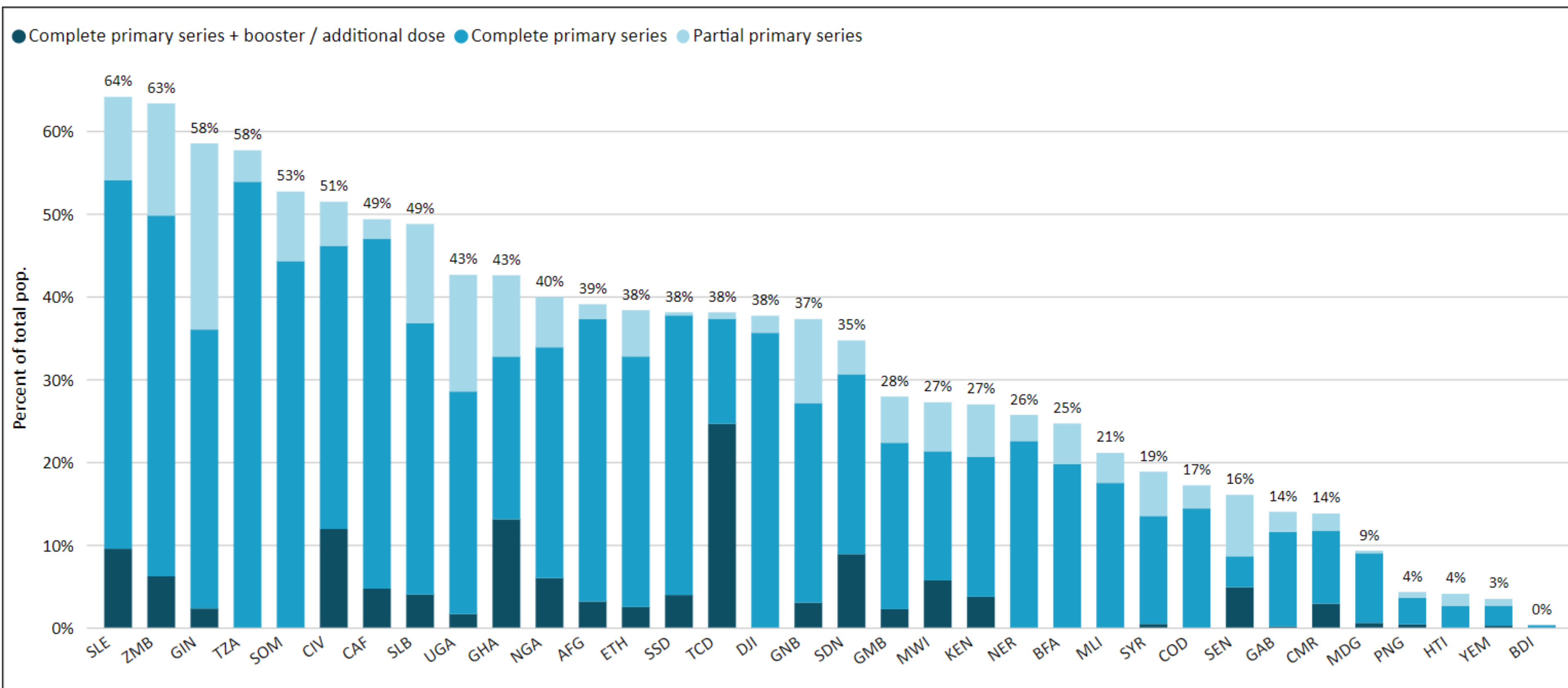
Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. pop.) | Complete primary series coverage (% of tot. pop.) | First booster coverage (% of tot. pop.) |
|--------|----------------|---------------------------------------------|---------------------------------------------------|-----------------------------------------|
| AFR    | 25             | 35 %                                        | 29 %                                              | 4 %                                     |
| AMR    | 1              | 4 %                                         | 3 %                                               | 0 %                                     |
| EMR    | 6              | 30 %                                        | 26 %                                              | 4 %                                     |
| WPR    | 2              | 7 %                                         | 6 %                                               | 1 %                                     |
| Total  | 34             | 34 %                                        | 28 %                                              | 4 %                                     |

\* Complete primary series: One or two doses according to country policy | **Source:** WHO COVID-19 vaccine administration data system | **Notes:** Eritrea and DPR Korea have not started COVID-19 vaccination.

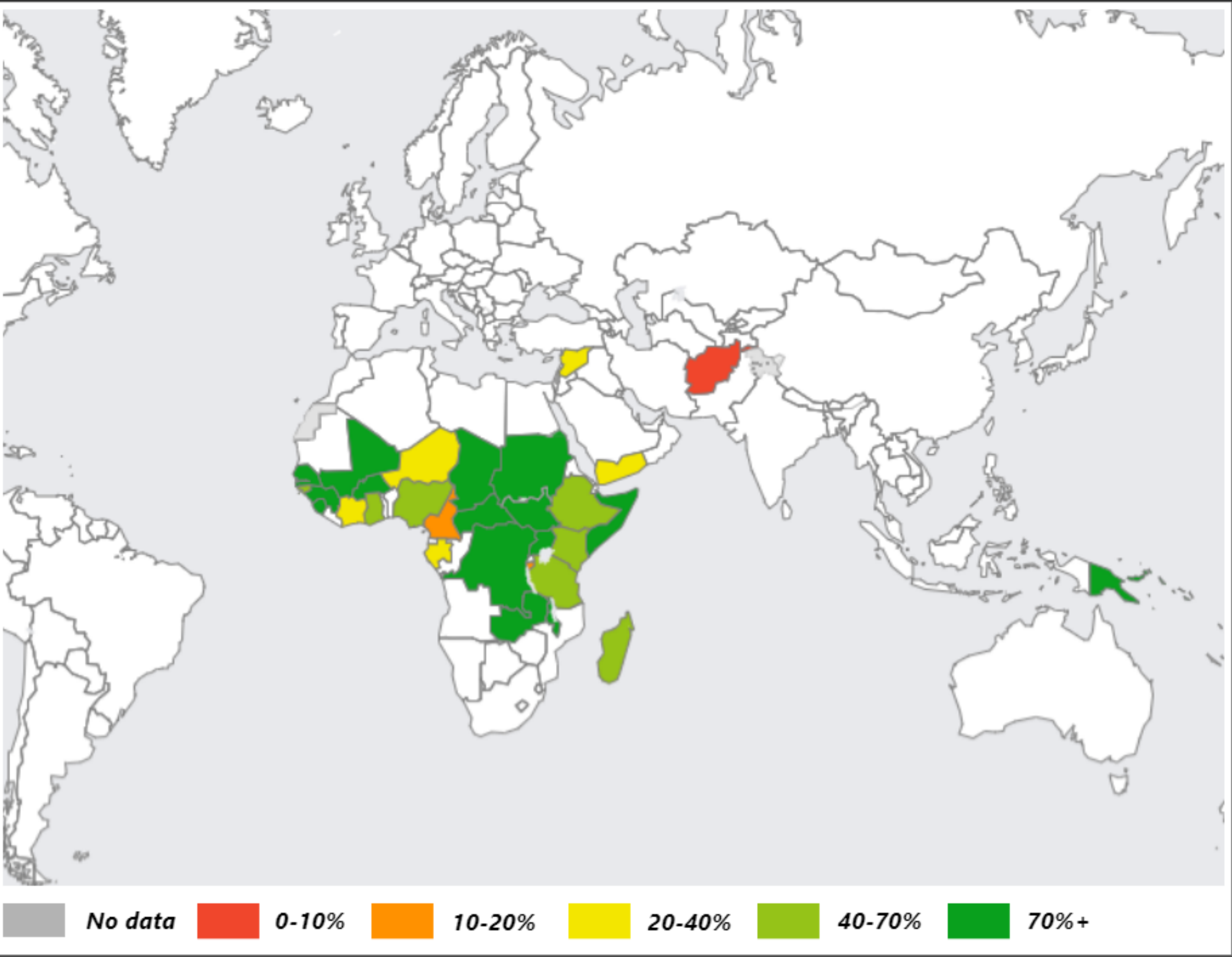


# Coverage of partial primary series, complete primary series, and booster / additional dose across CS countries



\* Complete primary series: One or two doses according to country policy | **Source:** WHO COVID-19 vaccine administration data system | **Notes:** Eritrea and DPR Korea have not started COVID-19 vaccination.

# Healthcare worker vaccination coverage across reporting CS countries



## Aggregate view across CS countries

- 32 Number of CS countries having reported at least once on healthcare worker vaccination coverage
- 5M Number of healthcare workers in reporting CS countries
- 99 % Percent of healthcare workers in reporting CS countries of total healthcare workers in all CS countries
- 54 % Percent of total healthcare workers with a complete primary series across reporting CS countries

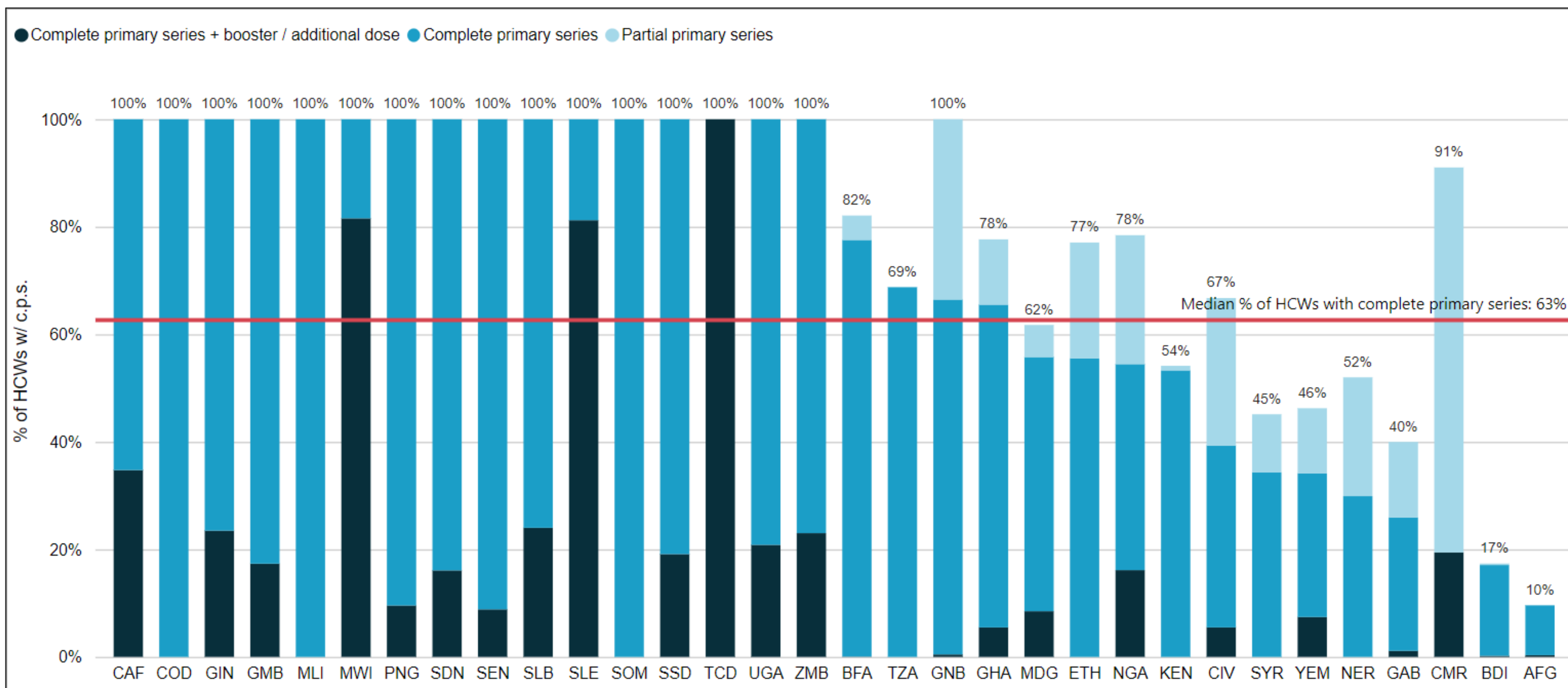
## Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. HCW pop.) | Complete primary series coverage (% of tot. healthcare worker pop.) | First booster coverage (% of tot. healthcare worker pop.) |
|--------|----------------|-------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|
| AFR    | 25             | 79 %                                            | 64 %                                                                | 10 %                                                      |
| EMR    | 5              | 29 %                                            | 27 %                                                                | 3 %                                                       |
| WPR    | 2              | 100 %                                           | 100 %                                                               | 14 %                                                      |
| Total  | 32             | 65 %                                            | 54 %                                                                | 8 %                                                       |

\* Complete primary series: One or two doses according to country policy | **Sources:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data

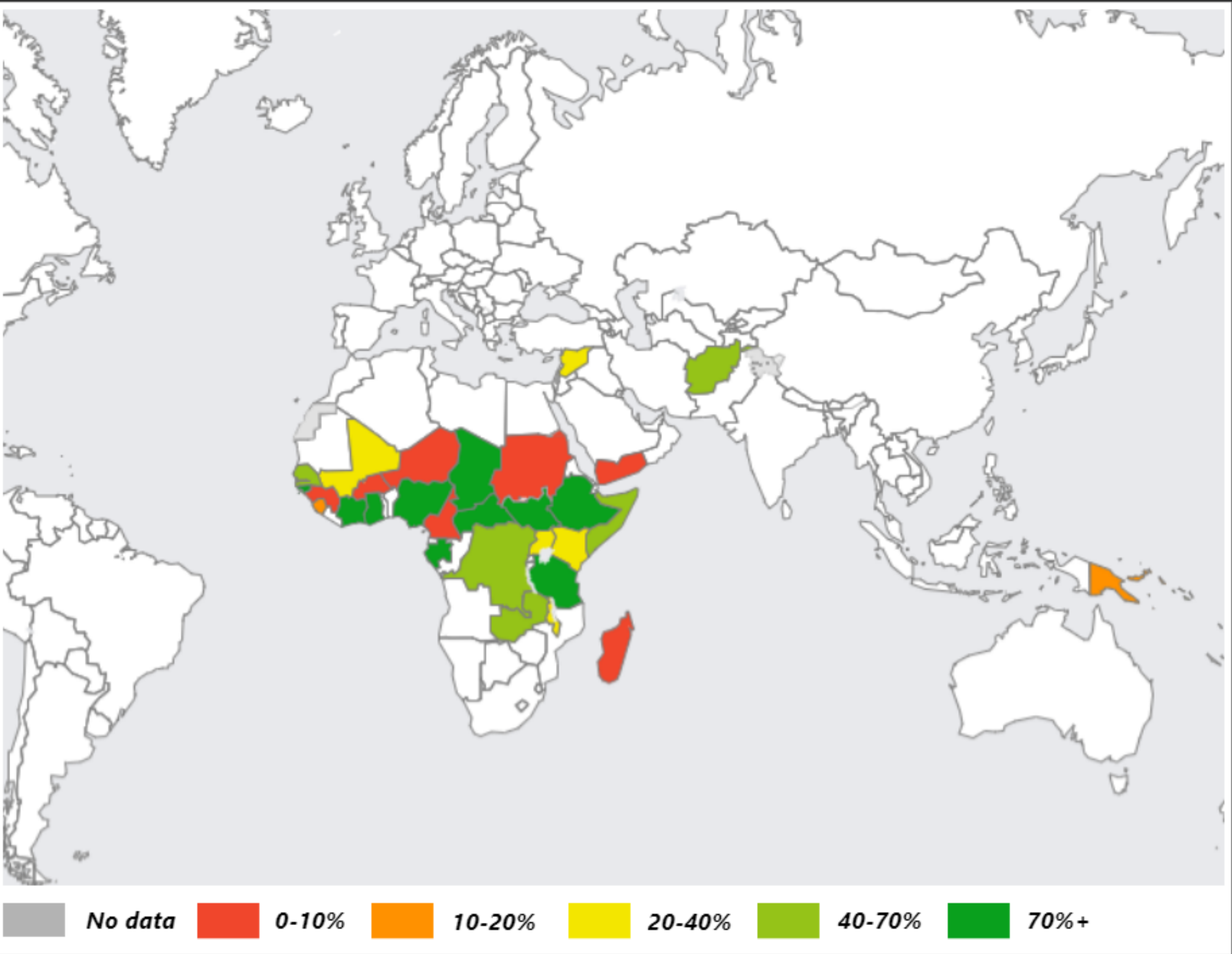


# Coverage of partial primary series, complete primary series, and booster / additional dose of healthcare worker population across CS countries



\* Complete primary series: One or two doses according to country policy | **Source:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data | **Note:** Percentage of healthcare workers fully vaccinated is capped at 100% in the event the number of individuals reported fully vaccinated is greater than total target population size.

# Older adult vaccination coverage in reporting CS countries



## Aggregate view across CS countries

- 31 Number of CS countries having reported at least once on older adult vaccination coverage
- 49M Number of country-defined older adults in reporting CS countries
- 98 % Percent of older adults in CS countries of total older adults in all CS countries
- 49 % Percent of older adults with a complete primary series across reporting CS countries

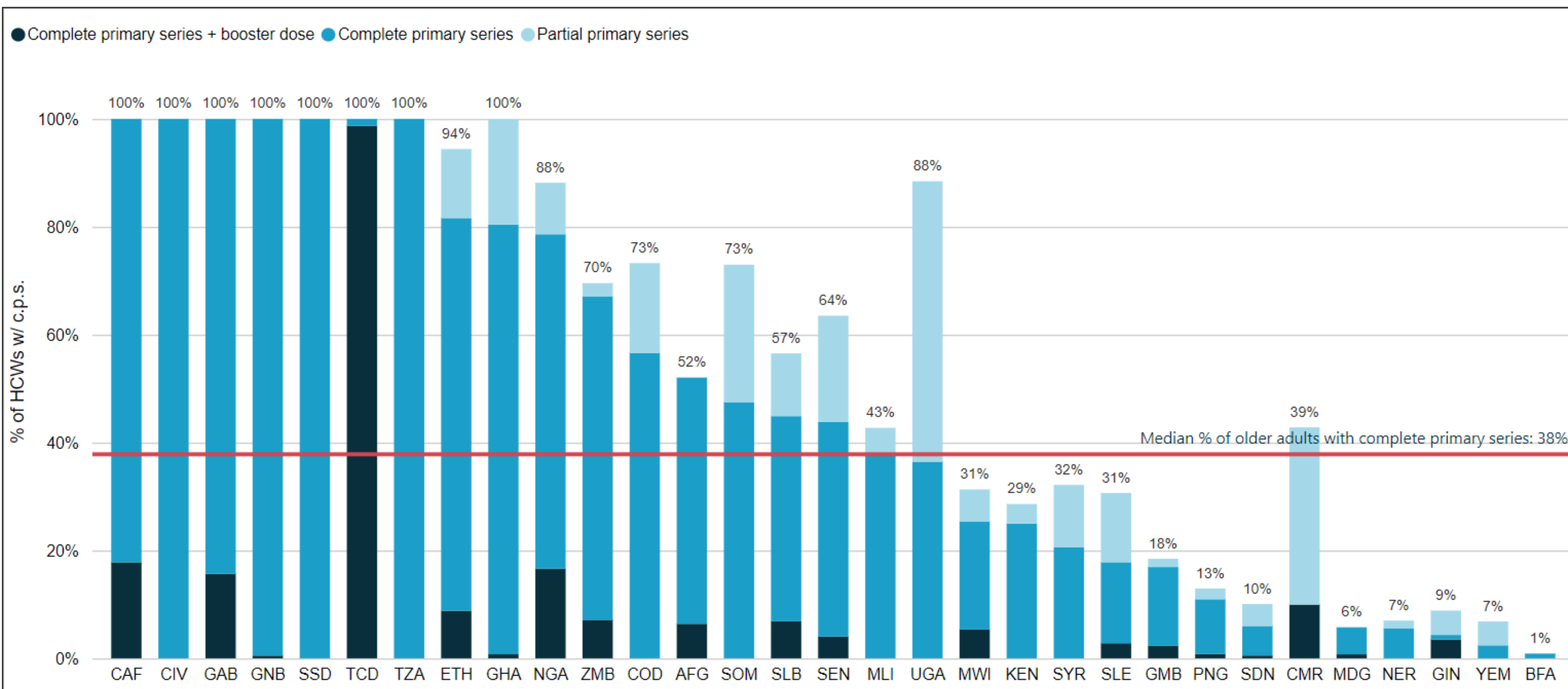
## Breakdown view by WHO region

| Region | Count of part. | At least one dose coverage (% of tot. older adult pop.) | Complete primary series coverage (% of tot. older adult pop.) | First booster coverage (% of tot. older adult pop.) |
|--------|----------------|---------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|
| AFR    | 24             | 67 %                                                    | 56 %                                                          | 7 %                                                 |
| EMR    | 5              | 27 %                                                    | 22 %                                                          | 2 %                                                 |
| WPR    | 2              | 14 %                                                    | 12 %                                                          | 1 %                                                 |
| Total  | 31             | 59 %                                                    | 49 %                                                          | 6 %                                                 |

\* Complete primary series: One or two doses according to country policy | Sources: WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data



# Coverage of partial primary series, complete primary series, and booster / additional dose of older adult population across CS countries



**Source:** WHO/UNICEF eJRF and other monthly regional reporting systems; ILO health workforce data | **Note:** Percentage of older adults fully vaccinated is capped at 100% in the event the number of individuals reported fully vaccinated is greater than total target population size.

**Thank you**



# Annex 1: Country codes

| Code | Country name  |
|------|---------------|
| AFG  | Afghanistan   |
| AGO  | Angola        |
| BDI  | Burundi       |
| BEN  | Benin         |
| BFA  | Burkina Faso  |
| BGD  | Bangladesh    |
| BOL  | Bolivia       |
| BTN  | Bhutan        |
| CAF  | CAR           |
| CIV  | Côte d'Ivoire |
| CMR  | Cameroon      |
| COD  | DRCongo       |
| COG  | Congo         |
| COM  | Comoros       |
| CPV  | Cabo Verde    |
| DJI  | Djibouti      |
| DMA  | Dominica      |
| DZA  | Algeria       |
| EGY  | Egypt         |
| ERI  | Eritrea       |
| ETH  | Ethiopia      |
| FJI  | Fiji          |
| FSM  | Micronesia    |
| GHA  | Ghana         |
| GIN  | Guinea        |

| Code | Country name        |
|------|---------------------|
| GMB  | Gambia              |
| GNB  | Guinea-Bissau       |
| GRD  | Grenada             |
| GUY  | Guyana              |
| HND  | Honduras            |
| HTI  | Haiti               |
| IDN  | Indonesia           |
| IND  | India               |
| KEN  | Kenya               |
| KGZ  | Kyrgyzstan          |
| KHM  | Cambodia            |
| KIR  | Kiribati            |
| LAO  | Laos                |
| LBR  | Liberia             |
| LCA  | Saint Lucia         |
| LKA  | Sri Lanka           |
| LSO  | Lesotho             |
| MAR  | Morocco             |
| MDA  | Republic of Moldova |
| MDG  | Madagascar          |
| MDV  | Maldives            |
| MHL  | Marshall Islands    |
| MLI  | Mali                |
| MMR  | Myanmar             |
| MNG  | Mongolia            |

| Code | Country name        |
|------|---------------------|
| MOZ  | Mozambique          |
| MRT  | Mauritania          |
| MWI  | Malawi              |
| NER  | Niger               |
| NGA  | Nigeria             |
| NIC  | Nicaragua           |
| NPL  | Nepal               |
| PAK  | Pakistan            |
| PHL  | Philippines         |
| PNG  | Papua New Guinea    |
| PRK  | DPRKorea            |
| PSE  | West Bank and Gaza  |
| RWA  | Rwanda              |
| SDN  | Sudan               |
| SEN  | Senegal             |
| SLB  | Solomon Islands     |
| SLE  | Sierra Leone        |
| SLV  | El Salvador         |
| SOM  | Somalia             |
| SSD  | South Sudan         |
| STP  | Sao Tome & Principe |
| SWZ  | Eswatini            |
| SYR  | Syria               |
| TCD  | Chad                |
| TGO  | Togo                |

| Code | Country name                   |
|------|--------------------------------|
| TJK  | Tajikistan                     |
| TLS  | Timor-Leste                    |
| TON  | Tonga                          |
| TUN  | Tunisia                        |
| TUV  | Tuvalu                         |
| TZA  | Tanzania                       |
| UGA  | Uganda                         |
| UKR  | Ukraine                        |
| UZB  | Uzbekistan                     |
|      | Saint Vincent & The Grenadines |
| VCT  |                                |
| VNM  | VietNam                        |
| VUT  | Vanuatu                        |
| WSM  | Samoa                          |
| XKX  | Kosovo                         |
| YEM  | Yemen                          |
| ZMB  | Zambia                         |
| ZWE  | Zimbabwe                       |

# Annex 2: Definitions

| Term                           | Definition                                                                                                                                                                                                         |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Course:</u>                 | <ul style="list-style-type: none"><li>• Number of doses required for a given product for its primary series (e.g. 2 doses of Pfizer BioNTech - Comirnaty)</li></ul>                                                |
| <u>Population coverage:</u>    | <ul style="list-style-type: none"><li>• Percentage of total population fully vaccinated with <u>any COVID-19 vaccine product from any source</u></li></ul>                                                         |
| <u>Product utilization:</u>    | <ul style="list-style-type: none"><li>• Percentage of total doses of <u>any COVID-19 vaccine product from any source</u> received that have been used</li></ul>                                                    |
| <u>Daily vaccination rate:</u> | <ul style="list-style-type: none"><li>• Number of doses of <u>any COVID-19 vaccine product from any source</u> administered per unit time as calculated by examining historical dose administration data</li></ul> |