

IMPLEMENTING THE IMMUNIZATION AGENDA 2030:

A Framework for Action through Coordinated Planning, Monitoring & Evaluation, Ownership & Accountability, and Communications & Advocacy

Background information updated for discussion at the second Member State Consultation (8 April 2021)

Version date: 31 March 2021



Table of Contents

1.	Introduction	3	
	Purpose	4	
	IA2030 Co-development	4	
	Guiding principles	5	
2.	IA2030 Framework for Action	5	
	Coordinated Operational Planning	6	
	Monitoring & Evaluation	7	
	Ownership & Accountability1	0	
	Communications & Advocacy as a cross-cutting enabler1	.5	
3.	IA2030 Implementation by level1	6	
	Country-level implementation1	6	
	Regional collaboration and support1	7	
	Global commitments1	9	
4.	IA2030 in the context of COVID-19 2	0	
5.	Learning Agenda for the path ahead2	1	
Lis	List of Acronyms		
A	Annex 1 – Monitoring and Evaluation Framework26		



IMPLEMENTING THE IMMUNIZATION AGENDA 2030:

A Framework for Action through Coordinated Planning, Monitoring & Evaluation, Ownership & Accountability, and Communication & Advocacy

1. Introduction

1.1. In August 2020, the Seventy-Third World Health Assembly endorsed **the Immunization Agenda** 2030: A Global Strategy to Leave No One Behind (IA2030) in decision decision WHA(9) <u>https://apps.who.int/gb/ebwha/pdf_files/WHA73/A73(9)-en.pdf</u>. IA2030 defines what needs to happen to achieve the IA2030 vision of *a world where everyone, everywhere, at every age fully benefits from vaccines for good health and well-being*.

1.2. IA2030 is a **global strategy** created for the global community and requiring broad ownership by all immunization and non-immunization stakeholders, including those involved in health system strengthening and disease-specific initiatives. While WHO was asked to lead the development of IA2030, all stakeholders co-created, co-developed and now co-own it. IA2030 has been designed to respond to the interests of **each and every country**, regardless of income level or geography. Recognizing that the most important actions for success must be taken by individual Member States, IA2030 aims to reinforce country ownership for planning and implementing effective and comprehensive vaccination programmes.

1.3. IA2030 will become operational through four critical elements:

- regional and national strategies (operational planning);
- a mechanism to ensure **ownership and accountability** (O&A);
- a monitoring and evaluation (M&E) framework to guide implementation;
- and **communication and advocacy** (C&A), to ensure that immunization remains high on the health agendas and to rally support for IA2030.

1.4. At this pivotal moment for immunization, implementation of IA2030 will initially focus on a **comprehensive response to the COVID-19 pandemic** and a repair to the damage it has caused. An urgent priority is the rapid and equitable scale-up of COVID-19 vaccines in all countries. For the many countries without adult immunization programmes, this presents a major challenge. In addition, the current focus on COVID-19 draws resources away from existing vaccination activities, requiring countries to address the disruption to their immunization and other essential primary health care services.

1.5. These challenges set the immediate priorities for IA2030 implementation. IA2030 will support urgent collective action to catch up on missed vaccinations and rebuild essential services. IA2030's commitment to eliminating equity gaps, particularly reducing the numbers of "zero-dose" communities (those not receiving any essential vaccines), will be more important than ever as countries wrestle with the dual challenges of introducing COVID-19 vaccination and maintaining and strengthening existing immunization programmes. Children in remote rural settings, urban slums and conflict-affected communities must not be left behind as the world recovers from COVID-19.

1.6. Rebuilding of immunization programmes in this way will also make a major contribution to the strengthening of primary health care systems. Effective childhood and adult immunization programmes, including COVID-19, will lie at the heart of resilient and sustainable primary health care systems that will be central to future global health security.

Purpose

1.7. The purpose of this **Framework for Action** is to describe how each of the four critical elements will be integrated to ensure successful implementation of the IA2030 strategy to achieve the IA2030 vision.

1.8. The document first summarizes a set of overarching considerations, and then addresses the following aspects:

- How each of the four critical elements work together as a **"Framework for Action"** (Section 2).
- How they will be **translated into implementation** at country, regional and global levels (Section 3).
- Additional considerations given the current context of **COVID-19** (Section 4).
- How a Learning Agenda will help inform the path ahead (Section 5).

An Annex provides a more detailed description of the M&E component.

1.9. First prepared in November 2020, this document has been updated to reflect feedback from consultations to date with **WHO Member States** and the **WHO Executive Board**, as well as input from other stakeholders. A final version will be available on the <u>IA2030 website¹</u> in advance of the 74th World Health Assembly (May 2021).

1.10. As a **living document**, this guidance will be updated based on early implementation experience, new priorities and challenges, and likely needs during the next decade. In particular, IA2030 indicators will require critical review and adaptation in light of the evolving COVID-19 pandemic and its effect on immunization programmes. The IA2030 Learning Agenda provides an initial framework for updating this document.

IA2030 Co-development

1.11. During 2019, the IA2030 strategy and vision core document was co-developed with Member States and partners committed to improving immunization outcomes. This co-development approach continued in 2020 and 2021, and has underpinned the development of the operational elements described in this paper.

1.12. Implementation planning for IA2030 draws on the lessons learned from the Global Vaccine Action Plan $(GVAP)^2$. In addition, each of the four operational elements has been shaped by broad stakeholder inputs:

• Development of the **Ownership & Accountability** model and **operational planning** guidance has been led by the core team of IA2030 partners³. Extensive consultations were held in July and August 2020 with a diverse range of stakeholders, including senior government officials, national immunization programme managers, and representatives from National

¹ For more information, visit <u>www.immunizationagenda2030.org</u>

² <u>https://www.who.int/publications/i/item/the-global-vaccine-action-plan-2011-2020-review-and-lessons-learned-strategic-advisory-group-of-experts-on-immunization</u>

³ IA2030 Core Team has been co-led by WHO and UNICEF, with members from the Wellcome Trust, Bill & Melinda Gates Foundation, the Gavi Secretariat, US Centers for Disease Control and Prevention, and the Gavi Civil Society Organisation (CSO) Constituency.

Immunization Technical Advisory Groups (NITAGs), academia, non-health sectors, civil society organizations (CSOs), and development partners from low-, middle- and high-income countries.

- The **Monitoring & Evaluation** approach has been developed by a taskforce with representatives from countries and regions, in collaboration with core IA2030 partners, the seven IA2030 strategic priority Working Groups, and in consultation with a "sounding board" that included additional representatives from countries, WHO Regional Offices, the WHO Strategic Advisory Group of Experts (SAGE), academia and CSOs. At its October 2020 meeting, SAGE reviewed draft O&A and M&E models. This document incorporates revisions recommended by SAGE, as well as additional input from development partners.
- A Communications and Advocacy (C&A) strategy was co-created with input from immunization partners, communications and advocacy experts, and CSOs at the country, regional and global level. Input was gathered through national and regional surveys, interviews, focus group discussions and from the extensive O&A national consultations. The co-created strategy is now being operationalized through a collaborative effort to bring to life the proposed launch activities, a messaging framework and structures to ensure continuous engagement throughout the decade.

Guiding principles

1.13. The Framework for Action draws on the following principles:

- Instilling broad ownership to achieve the IA2030 vision among all immunization and nonimmunization stakeholders, including those involved in health system strengthening and disease-specific initiatives. Country ownership is key to achieving the IA2030 vision because the most important actions will be the responsibility of individual countries.
- Leveraging and strengthening existing mechanisms for coordination, accountability, planning, M&E and advocacy at country, regional and global levels.
- **Promoting continuous quality improvement cycles** using timely, reliable and fit-for-purpose data.
- **Building and strengthening** stakeholder accountability and technical alignment to address country needs.
- Aligning and harmonizing with existing regional and national plans and global strategies, including the Sustainable Development Goals (SDGs), Universal Health Coverage (UHC) and Gavi 5.0.

2. IA2030 Framework for Action

2.1. Four key operational elements are integrated to *empower and drive actions* to advance the implementation of IA2030 (Figure 1).



Figure 1: IA2030 Framework for Action with four operational elements to drive implementation

2.2. Each of these elements is critical for continuous quality improvement of immunization programmes and other progress required to achieve the IA2030 vision:

- 1. **Coordinated Operational Planning** with prioritized actions for implementation by countries, regions and partners, and supported by guidance provided in technical annexes for each of the seven IA2030 strategic priorities.
- 2. Monitoring & Evaluation (M&E) with action-based indicators to monitor and evaluate progress toward IA2030 goals and strategic priority objectives, to inform corrective actions when needed.
- 3. **Ownership & Accountability (O&A)** with structures and platforms to ensure commitments by stakeholders are captured, technical support is facilitated and aligned, and progress is tracked.
- 4. **Communication and Advocacy (C&A)**, a cross-cutting enabler that will drive coordinated messaging and action at key moments to deliver on accountability objectives throughout the decade.

Coordinated Operational Planning

2.3. Coordinated operational planning by Member States, regional bodies, development partners and civil society is the means to translate the vision of IA2030 into concrete, near-term actions. Taking into account national context and expertise, Member States will incorporate prioritized aspects of IA2030 into their national strategies and plans as they are updated. Initial priorities will include scaling up of COVID-19 vaccination and recovery of immunization and other essential health services to at least pre-COVID-19 levels.

2.4. IA2030 operational planning is fully coordinated with existing mechanisms (such as RITAGs and NITAGs) used by regions and Member States as they set regional and national immunization priorities, and develop implementation plans to achieve health-related SDG targets. It will also take into account timebound initiatives (e.g. COVAX), complement Gavi's 2021-2025 strategy, and seek integration of disease-specific initiatives. While planning processes will vary across countries and

regions, they will incorporate similar key steps to ensure that immunization needs are fully understood, gaps are covered, prioritization is locally relevant and realistic and meaningful targets are set, and sufficient resources are committed.

2.5. Key planning steps include assembling relevant stakeholders from within and beyond immunization and health to review evidence and lessons learned, to understand root causes and to identify improvement needs. Planning processes should refer to best practice and draw on up-to-date technical guidance (such as that provided in the IA2030 technical annexes). To support country planning, WHO is releasing updated guidance on developing **national immunization strategies**. It will also be important for CSOs and development partners to align their contributions to achieving IA2030 goals and targets.

2.6. IA2030 operational planning will also reinforce alignment and integration across initiatives to control, eliminate and eradicate specific diseases, such as those for polio and measles and rubella. In defining its new endgame strategy, the Global Polio Eradication Initiative (GPEI)⁴ articulates its commitments to IA2030 and demonstrates how the integration of polio eradication and essential immunization activities will contribute to IA2030 strategic priorities. Similarly, the Measles & Rubella Initiative's new ten-year strategic framework⁵ explicitly identifies contributions to each IA2030 strategic priority, facilitating integration into national and regional planning processes.

Monitoring & Evaluation

The IA2030 **Monitoring & Evaluation (M&E) Framework** has action-based indicators intended to empower implementation of monitoring, evaluation and action (ME&A) cycles, including effective feedback loops at country, regional and global levels.

2.7. ME&A cycles, facilitated through regular independent technical review at country, regional and global levels, encourage immunization programme stakeholders to continuously ask the questions:

- How are we doing? (Monitor)
- How can we do it better? (Evaluate)
- Who is responsible, for doing what, to make improvements? (Act)

2.8. The M&E Framework includes **tailored indicators** to enable the use of data for action to continuously improve immunization programmes at all levels. It provides indicators to monitor progress towards the three IA2030 impact goals and the 21 objectives within its seven strategic priority areas (**Figure 2**).

⁴ Polio strategy not yet available.

⁵ Available at: https://measlesrubellainitiative.org/learn/the-solution/the-strategy/

Figure 2: IA2030 Goals, Objectives, and Indicators



Impact Goal Indicators

2.9. There are six proposed impact goal indicators (**Table 1**). They are outcome and impact measures common across all levels (country, regional and global) and designed to track progress toward the three IA2030 impact goals. Progress made in achieving the impact goal indicators will be assessed against predetermined targets. A detailed description of each impact goal indicator, including target-setting methods and key uses of the indicator for monitoring, evaluation and action, is provided in **Annex 1**.

Table 1: Proposed IA2030 Impact Goal Indicators and Targets

Impact Goal	ct Indicator		2030 Target
	Save lives	1.1 No. of VPD deaths averted	50 million VPD deaths averted globally during 2021-30 ¹
1 Prevent Disease	Control, eliminate & eradicate VPDs	1.2 No. and % of countries achieving endorsed regional or global VPD control, elimination and eradication targets	All countries achieve the endorsed regional or global VPD control, eradication, and elimination targets ²
	Reduce VPD outbreaks	1.3 No. of large VPD outbreaks	50% reduction in the rolling 3-year mean no. of large VPD outbreaks
2 Promote Equity	Leave no one behind	2.1 No. of zero dose children	50% reduction in the no. of zero dose children at country, regional, and global levels
3	Deliver across the	3.1 Vaccination coverage across the life course (DTP3, MCV2, HPVc, PCV3) ³	90% global coverage for DTP3, MCV2, HPVc, and PCV3
Build strong – immunization programmes	Contribute to PHC/UHC	3.2 UHC Index of Service Coverage	Improve UHC Index of Service Coverage at country, regional, and global levels

1. Measured relative to zero coverage levels (absence of vaccination)

2. Eradication (polio), elimination of transmission (measles, rubella), elimination as a public health problem (HPV, MNT, hepatitis B), control (Japanese encephalitis) 3. COVID-19 vaccination coverage will potentially be included when final SAGE COVID-19 vaccine recommendations are available

Strategic Priority Objective Indicators

2.10. Strategic priority objective indicators are designed to track performance towards the 21 IA2030 strategic priority objectives. They will also help to identify potential root causes of success and failure so that actions to improve programme performance can be recommended and implemented. These indicators are a combination of input, process, output and outcome measures, reflecting the need for performance monitoring at country, regional and global levels. Global targets have not been set for strategic priority objective indicators due to wide country and regional variations. Regions and countries are encouraged to assess the baseline for each indicator and to set targets for these indicators that reflect local context.

- Country strategic priority objective indicators² are intended to be used by country bodies to assess progress, recommend actions for immunization performance improvement, and to inform prioritization and allocation of resources and policy development at facility, sub-national and national levels. To supplement global and regional indicators, WHO and UNICEF Country and Regional Offices are encouraged to support Member States to select additional strategic priority objective indicators for M&E of national health or immunization plans and strategies that are tailored to local needs and context.
- Regional strategic priority objective indicators² are intended for use by regional bodies to assess progress, recommend actions for performance improvement and to inform tailored technical support to countries.⁶ To supplement global indicators, WHO and UNICEF Regional Offices are encouraged to select additional strategic priority objective indicators that are tailored to regional needs and context.
- Global strategic priority objective indicators (n=15) are intended to assess progress and be used to recommend actions for performance improvement at the global level and to highlight critical performance gaps that need to be further evaluated and tackled at regional and country levels (Table 2). A detailed description of each indicator is provided in Annex 1.

Table 2: Proposed IA2030 Global Strategic Priority Objective Indicators (n=15)

SP 1: Immunization Programmes for PHC/UHC	SP 2: Commitment & Demand	SP 4: Life course & Integration	SP 6: Supply & Sustainability
1.1 Proportion of countries with evidence of adopted mechanism for monitoring, evaluation and action at national and subnational levels	2.1 Proportion of countries with legislation in place that is supportive of immunization as a public good	4.1 Breadth of protection (mean coverage for all WHO-recommended vaccine antigens, by country)	6.1 Level of health of the vaccine market, disaggregated by vaccine antigens and country typology**
1.2 Density of physicians, nurses and midwives per 10,000 population	2.2 Proportion of countries that have implemented behavioural		6.2 Proportion of countries whose domestic government and donor expenditure on primary health
1.3 Proportion of countries with on-time	or social strategies (i.e., demand generation strategies) to address		care increased or remained stable
suspected cases of all priority VPDs included in nationwide surveillance	under-vaccination		share of national immunization schedule vaccine expenditure
1.4 Proportion of time with full availability of DTPcv and MCV at service			funded by domestic government resources increased
delivery level (mean across countries)	SP 3: Coverage & Equity	SP 5: Outbreaks & Emergencies	SP 7: Research & Innovation
1.6 Proportion of countries with at least 1			
safety report per million total	3.2 DTP3, MCV1, and MCV2 coverage in the 20% of districts with	5.1 Proportion of polio, measles, meningococcus, yellow fever,	7.1 Proportion of countries with an immunization research agenda
	lowest coverage (mean across countries)	cholera, and Ebola outbreaks* with timely detection and response	7.2 Progress towards global research and development targets***

- * includes only outbreaks with an outbreak response vaccination campaign
- ** following attributes will be measured: supply meeting demand; individual supplier risk; buffer capacity; long term competition

^{***} Targets will be set no later than 2022 and endorsed by SAGE

⁶ Guidance for selection of regional and country strategic priority objective indicators is provided in Annex 1.

2.11. Through monitoring and analysis of IA2030 indicator progress, independent technical review bodies can recommend areas for further in-depth evaluation to be conducted by national and regional bodies and IA2030 Working Groups, as described in the next section. Evaluation of policies, strategies, and interventions within each strategic priority will be encouraged at country, regional, and global levels as integral to ME&A cycles. Diverse evaluation methods will be needed to assess policies, strategies, and interventions across different contexts. Evaluation efforts conducted by Working Groups would be informed through Consultative Engagement with countries, regions, partners, and civil society, as well as feedback from independent technical review groups (e.g., SAGE, RITAGs) and the global-level IA2030 partnership.

Ownership & Accountability

2.12. Achieving the vision laid out in the ten-year IA2030 strategy will depend on numerous and varied stakeholders, each taking on agreed responsibilities to achieve the stated goals (**ownership**). Ensuring these contributions are understood, executed and monitored, a process for checking responsibilities across stakeholders (**accountability**) will help countries and partners remain on track.

2.13. As such, the O&A model for IA2030 makes visible the commitments made by different stakeholders and ensures accountability by regular monitoring. Supported by the IA2030 M&E Framework, partners at all levels will have the data to review progress and performance against milestones so that they can take corrective actions when required.

2.14. As highlighted by the UN's Independent Accountability Panel's 2020 Report⁷, an effective accountability framework relies on four interconnected pillars, prompting the following questions:

- **Commit:** Have we committed to specific goals, defined responsibilities and required resources?
- Justify: Have our decisions and actions to strengthen the achievement of goals and rights been justified by evidence, rights and rule of law?
- **Implement:** Will we monitor and review data, including through independent review, enact remedies, and take necessary action?
- **Progress:** Will we continuously make effective, efficient and equitable progress toward agreed rights and goals?

2.15. This "good practice" framework guides the design of an O&A approach, integrating the necessary structures, tools and information flow (**Figure 3**).

2.16. In creating the approach to O&A, Member States and development partners have called for more systematic and coordinated use of existing structures across country, regional and global levels. In addition, the shared contributions of development partners (including the private sector) and CSOs should be tailored to specific country and regional contexts, with increased visibility and consolidation of vaccine-preventable disease-specific initiatives.

⁷ UN Secretary-General's Independent Accountability Panel (IAP) for Every Woman Every Child. 2020 Report. Geneva: World Health Organization; 2020



Figure 3: IA2030 Information flow, supported by four operational elements

A global level partnership model

2.17. The **global level partnership model** for IA2030 provides an overarching 'umbrella' forum for immunization intended to represent the interests of all countries, give voice to civil society stakeholders, and cover all vaccine-preventable diseases. It will do so by combining consultative engagement process through working groups, operational alignment through a Coordination Group, and political leadership through a Partnership Council. It will use newly designed tools to bring greater visibility and evidence to inform decisions across partners to drive corrective actions at country, regional and global levels to achieve the IA2030 vision.

2.18. As such, the model comprises three interrelated pillars as depicted below (**Figure 4**), each playing an important role to form the basis of the IA2030 global partnership. Working together, the components address a critical gap in the overall O&A structures aligned to the decade's new vision and strategy. The three components are presented below and will be further detailed in an O&A Annex to this Framework, currently in development.

0	
Consultative Engagement	Coordination
	IA2030 Coordination Group of core
A process to strengthen the "movement" of IA2030 –bringing in regions, countries, CSOs, donor voices to advise global	partners (Director level) meet monthly with timely follow-up, supported by small Secretariat
partners on priorities and needed action.	The operational driver for global alignment and coordinated action.
IA2030 Working Groups	3
Strategic Priority (SP) technical working groups at operational	Leadership
 level with representation across technical partners, including CSOs Other cross-cutting thematic working groups (e.g., Comms & Advocacy, Monitoring & Evaluation, Resource Mobilization) Meet regularly to discuss issues of relevance, technical 	IA2030 Partnership Council of 10-12 Senior leaders meet 1-2/ year (members include representation from country, regional and CSOs)
alignmentOrganize consultative sessions with broad partner engagement (per above).	The political leadership of IA2030 , providing the ownership and accountability at global levels

Figure 4: The three components to IA2030 global level O&A model

2.19. The following principles will guide the functioning of the global level O&A model:

- Offers stakeholders something different: To avoid duplication, the model will maintain a focus on immunization, while also ensuring close engagement with broader health agendas, such as UHC and maternal, neonatal and child health.
- **Gives voice to all countries, regions and communities**: The approach will ensure that all stakeholder groups can engage meaningfully in global-level deliberations.
- Leverages country and regional structures: The model will use a variety of existing fora for reviewing development partner, CSO and Member State progress against pledges and targets, as captured in scorecards.
- Addresses fragmentation: The approach aims to build consensus and create incentives for partners to work more effectively across disease-specific initatives.
- Focuses on priorities: Dialogue at global levels and resulting actions will target priority countries and priority topics as identified through evidence-based data, consultative processes, and thematic working groups.
- **Keeps a technical focus**: To build on the valuable collaborations used for the development of IA2030 strategic priorities, IA2030 Working Groups will meet routinely to facilitate technical alignment in strategic priority areas, shaping global coordination and actions.
- **Term-limited:** In recognition of the complex and ever-evolving global health landscape, with its myriad of initiatives and numerous partner mechanisms, the model will have a limited term of three years, followed by a full review by the partnership to assess its value and determine its future.

Working Groups and Consultative Engagement

2.20. **Working Groups** were initially organized around the IA2030 strategic priorities to support the collaborative development of the IA2030 vision and strategy (2019) and technical annexes (2020). Working Groups will continue to play an important convening role during 2021-2023 to support focused discussions and technical alignment across thematic or cross-cutting areas of focus, including support for global M&E and C&A. They may complement, extend, incorporate, or be

incorporated by existing mechanisms at global or regional levels such as those established for COVAX facility, Gavi 5.0 and/or disease control initiatives. Working Groups will shape regular discussions at the operational level, identify areas that require attention by regional or global actors, and feed into the global-level structures, including the Coordination Group and the IA2030 Partnership Council (IAPC) as described below.

2.21. **Consultative engagement** with countries, regions, CSOs and other partners on IA2030 implementation topics will be organized to provide real-time exchange on immunization programme successes and challenges, and to offer peer-to-peer learning and knowledge sharing across sectors and countries. On a rotating basis, and based on topics proposed by countries and regions, Working Groups (or partnership constituencies or communities of practice) will be supported to host open, multilingual "virtual events" with structured format and facilitation to amplify participant contributions. These consultative engagement "touch points" will help identify and elevate issues for consideration by the Coordination Group and IAPC. As such, they contribute to the "movement" of IA2030, bringing in critical voices and perspectives from regions, countries and CSOs in a predictable and structured way and feeding into debates at the global level.

Coordination

2.22. The **IA2030 Coordination Group** The IA2030 Coordination Group will comprise Program Directors from leading immunization agencies and partners. In oversight roles at global levels, these individuals will consider input received through IA2030 Working Groups and consultative engagement, helping drive solutions to address operational bottlenecks and technical alignment. The Coordination Group will also advise on the preparation of formal IA2030 reports (e.g. for WHA, SAGE) and set the agenda for IAPC meetings. Its membership will comprise approximately 7-8 immunization leaders from the following IA2030 core partners:

- WHO (co-Chair)
- UNICEF (co-Chair)
- Bill & Melinda Gates Foundation
- Wellcome Trust
- Gavi Secretariat
- US Centers for Disease Control and Prevention
- Gavi CSO Constituency

2.23. Meeting on a monthly basis, core partners maintain a regular (and more informal) dialogue in support of IA2030 implementation. A small 'virtual' IA2030 **Secretariat team**, will be created with dedicated staff from partner organizations to provide logistics and technical support to the IA2030 Coordination Group and associated structures.

Leadership

2.24. The **IA2030 Partnership Council (IAPC)** comprises senior leaders from immunization partners operating at the global level as well as representatives from countries, regions and civil society. The IAPC reinforces, complements and builds upon existing structures at national and regional levels, and focuses global partner attention on priority technical areas, implementation bottlenecks, progress against global immunization targets and partner commitments. It has been created as an accountability mechanism (or governance structure) to jump-start the IA2030 decade with three key objectives:

- Monitor and review progress against IA2030 targets and global partner support
- Advocate for, invest in and align identified key actions to enhance progress

• Mobilize political leadership and drive global partner action

2.25. The IAPC will comprise approximately 10-12 individuals, including:

- WHO Deputy Director General
- UNICEF Deputy Executive Director, Programmes
- Gavi Secretariat Deputy CEO
- Bill & Melinda Gates Foundation Director, Global Delivery Programs
- World Bank Global Director, Health, Nutrition and Population
- US Centers for Disease Control and Prevention Director, Center for Global Health
- 2 regional staff members (1 from WHO; 1 from UNICEF)
- Gavi Civil Society Organization (CSO) Constituency
- 1 member from the African Union (AU)

One of two Chairs of the IAPC would alternate between WHO and UNICEF each year, with the other selected by the other IAPC members for the initial term of three years.

Public Pledging

2.26. Domestic financing will remain the most important contribution overall in immunization. Development partners and CSOs will specify (pledge) their intended and additional contributions, aligned to their technical roles and the IA2030 strategic priorities. This will ensure greater transparency and facilitate monitoring of their contributions, and promote accountability for the achievement of IA2030 goals. This process is currently being developed, and is intended to complement and align with existing pledging mechanisms such as Gavi, GPEI and others.

2.27. Pledging can take various forms. Some partners could commit financial support, human resources or logistical support (e.g. the management of the IA2030 Secretariat). Others could commit to take the technical lead on specific IA2030 strategic priority areas at the global, regional or country level, or to take on key roles in regional communication and advocacy.

2.28. At the global level, development partners and CSOs will pledge multiyear commitments in advance of the first IAPC meeting. The pledges will be collected and made available on the IA2030 website. Each year the IAPC will review progress against these pledges, with updates expected every 3-5 years. At the regional and country level, the frequency of pledging will be adjusted to regional and Member State planning cycles and will take place within existing coordination mechanisms.

Tailored Scorecards

2.29. Scorecards will be used to track progress as reported through IA2030 impact goal and strategic priority indicator results and pledged commitments for technical resources, advocacy resources, and financial resources. IA2030 scorecards will be used for two distinct objectives:

- To measure progress towards IA2030 impact goal and global strategic priorities and to see contributions made towards these from country, regional and global levels.
- To measure progress against publicly pledged commitments by development partners and CSOs at the global, regional and country levels.

2.30. The scorecards will be tailored for use by countries, regions and global-level actors. They will be used to inform decision-making and focus attention on priorities, highlight progress, encourage learning across Member States, support resource mobilization efforts, planning and collaboration and drive corrective action. The tailored approach will support greater accountability of countries, development partners and CSOs.

2.31. WHO will facilitate the development of global scorecards annually, compiling data from IA2030 M&E Framework indicators and other sources (e.g. pledges from partners). Scorecards will be reviewed at the global level by the IA2030 Partnership Council and independent technical review bodies. Scorecard templates will be provided to regions and countries to facilitate tailored monitoring, evaluation and action cycles.

Communications & Advocacy as a cross-cutting enabler

2.32. **Communications and Advocacy (C&A)** will be essential to underpin coordinated operational planning, Monitoring & Evaluation, and Ownership & Accountability, driving political commitment, country ownership and awareness of IA2030.

2.33. The key objectives guiding the development of the C&A strategy are to:

- Ensure **immunization remains high on the global health agenda** and is integrated with broader themes such as the Sustainable Development Goals, Universal Health Coverage, nutrition and gender.
- Ensure **strong ownership** of IA2030 by Member States to drive prioritization and progress on immunization.
- Reinforce **accountability for progress** on immunization goals, and to recognize and celebrate success.

2.34. The **launch of IA2030**, planned for April 2021, will focus global attention on the importance of vaccines and signal the beginning of the new immunization decade to Member States and the wider global health and development community. The launch aims to galvanize Member State and wider partner commitments to immunization, amplify CSO support and raise broader awareness of this new strategy with key target audiences. In addition, public-facing activities will call on health champions and community leaders to share key messaging on the importance of immunization. This will build off other initiatives such as World Immunization Week, Gavi 5.0 and the ongoing COVID-19 response effort. To support the launch and bring to life the IA2030 vision, C&A partners have developed a messaging framework and activity plans for tailoring to different stakeholders' and audiences' interests and areas of focus.

2.35. The C&A strategy will develop an approach that is acceptable, both technically and culturally, in **different regional and Member State contexts** and helps to create a broad social movement for immunization. Language and concepts that are broadly accessible will be used so as to engage with all sectors of the community.

2.36. Key messages include the importance of immunization to global health security, its potential to provide the foundation for resilient and sustainable primary health care systems delivering universal health coverage, the importance of access and equity (including reaching zero-dose children), and the role of innovation to enhance the reach and impact of immunization programmes.

2.37. A key to success for IA2030 will be ensuring ongoing partner participation and a sustained commitment to the shared vision. Therefore, central to C&A operationalization will be the creation of structures and activities to maintain momentum beyond the launch. A key aim will be to mobilize stakeholders regularly around important milestones and crucial moments, creating a drumbeat of activities throughout the decade. This will ensure that immunization remains high on global and regional health agendas, and help to generate a groundswell of support or social movement for

immunization. C&A will collaborate closely with IA2030 Working Groups to align on priorities, identify engagement opportunities, coordinate action and strengthen accountability for IA2030 targets, and celebrate progress.

2.38. Flexible, adaptable initiatives, tailored to a range of audiences, will also help regions and Member States to contextualize data and evidence, and advance messages across a variety of platforms. The C&A strategy will align with the work of other communication initiatives to promote confidence in, and demand for, vaccines.

3. IA2030 Implementation by level

3.1. The IA2030 Framework for Action will be taken forward at country, regional and global levels, supported by the following key tools, structures and processes.

Country-level implementation

3.2. Member States are ultimately responsible for implementing and financing IA2030 through concrete, national plans and budgets, including those focused on COVID-19 vaccine implementation and recovery of essential health services during the initial years of IA2030. Country commitments are critical to achieve and sustain national immunization targets and goals contributing to the shared IA2030 vision.

3.3. Member States will prioritize elements of IA2030 according to their national and regional contexts. For example, many are likely to prioritize concrete, national plans focused on COVID-19 vaccine implementation and recovery of essential health services initially. Some countries with high coverage and well-resourced programmes may focus primarily on rebutting efforts to undermine confidence in vaccines on social media platforms. Other countries may also prioritize access to affordable, quality-assured vaccine supplies or strategies to target children being missed by integrated health services. Introductions of recommended vaccines not yet included in immunization programmes may be a primary priority for other countries. Each country working to address its respective priorities within IA2030 will contribute to achieving shared global impact.

3.4. Member State implementation of IA2030 through their respective national strategies and plans (**Table 3**) will build upon:

- **Technical input from experts:** Tailored country support, coordinated through WHO and UNICEF regional offices, and leveraging national and regional technical advisory groups (e.g. NITAGs, RITAGs) will build upon guidance from SAGE to help ministries of health prioritize. Technical annexes for each IA2030 Strategic Priority will help Member States to identify actions to address programmatic priorities.
- Updated national immunization strategies and operational plans. Member States will progressively update national strategies and operational plans reflecting their emerging priorities in the context of COVID-19 response and recovery and longer-term IA2030 goals.
- Monitoring, evaluation and action (ME&A) cycles: Member States will be encouraged to implement ME&A cycles (including effective feedback loops) at all levels to: (1) measure and review IA2030 impact goal and strategic priority objective indicator data on a regular basis;
 (2) assess national/subnational and partner/CSO progress using tailored indicator scorecards or dashboards, identify potential root causes of success and failure, and identify areas for

improvement; and (3) recommend, plan, implement and review actions to improve programme performance. These cycles will need to take into account the impact of COVID-19, such as when estimating baseline immunization coverage.

Strengthened, tangible contributions of different in-country stakeholders: Some countries may establish formal national accountability frameworks or build on independent health observatories that monitor progress on UHC. Other countries may build on existing and strengthened mechanisms such as inter-agency or health sector coordinating committees (ICCs, HSCCs), NITAGs or the Gavi Alliance Joint Appraisal process. Whether through new or existing platforms, partners will need renewed focus on holding each other accountable. This increased accountability for contributions across in-country partners will support more effective and coordinated implementation of national priorities. CSOs play a growing role, for example connecting national strategies to communities, to strengthen confidence in immunization and to identify marginalized populations with low immunization rates. Countries are encouraged to include CSOs in accountability mechanisms.

Country Implementation of IA2030		
Commitment	To achieve and sustain national and regional immunization goals & targets	
Differentiated IA2030 Priorities	According to country context (e.g coverage & equity, hesitancy, integration of services, outbreaks, quality assured vaccine supply, sustainability)	
Advocacy & Communications	National communication and advocacy platforms	
Coordinated Operational Planning Monitoring & Evaluation 📩 Ownership & Accountability		Ownership & Accountability
	Tools & Structures	
 National Health Strategy National Immunization Strategy Prioritized operational plans informed by experts (e.g., NITAGs, RITAGs, SAGE) 	 IA2030 IG indicators, Global and Regional SP Objective indicators, and additional SP Objective indicators selected by countries tailored to needs and context Scorecards or dashboards to measure national/subnational & partner/CSO progress Monitoring frameworks (e.g., National Health Observatory; WHO-UNICEF JRF) 	 WHA representation Regional Committee representation NITAGs ICCs/ HSCCs Civil Society platforms
Processes		
 Coordination through country structures with inclusion of CSOs (e.g. Stakeholder engagement groups, Gavi Joint Appraisal process, Health Sector Coordinating Committee) 	 Monitoring, Evaluation cycles (including effective feedback loops) at all levels: Monitor: measure and review IA2030 indicator data on a regular basis Evaluate: assess progress using tailored indicator scorecards and identify potential root causes of success and failure Act: recommend actions for implementation, resource allocation and policy development 	 Processes to increase accountability of government, partners & CSOs (e.g., Joint Appraisal in Gavi countries, National Accountability Frameworks) Routine opportunities for consultative engagement organized by Working Groups

Table 3: Country Implementation of IA2030

Regional collaboration and support

3.5. Member States, development partners and civil society will work together to advance coordinated IA2030 implementation through regional technical and political fora. The initial priority in many regions is likely to be COVID-19 vaccine implementation, and recovery of immunization and essential services to pre-COVID-19 baseline. Regions will need to tailor regional operational plans to emerging priorities arising after COVID-19 recovery is underway, and drive results to ensure that country programmes meet longer-term regional goals and targets aligned to IA2030. Communication and advocacy focal points will contribute to generating and maintaining support for immunization and IA2030's goals. Views from across regions will be amplified through the consultative engagement process to inform and help hold accountable global level coordination and leadership processes.

3.6. Regional cooperation and support (Table 4) will be implemented by:

- Tailoring IA2030 strategic priorities to regional priorities. Regional public health experts (e.g. RITAGs facilitated by development partners) will recommend key technical areas for focus across Member States and means to strengthen integration of immunization, including disease-specific initiatives, within UHC/PHC. Regional priorities will be reflected in strategies, operational plans and M&E frameworks, contributing to global impact goals. They will include considerations of changes in approaches necessary where progress has plateaud and in light of targets endorsed by regional and global bodies. Regional structures such as RITAGs will assist Member States, development partners and CSOs to regularly monitor progress and systematically identify emerging priorities.
- Member States determining regional priorities. Member states will review and decide on the recommendations from various regional structures (e.g. RITAGs) through Regional Committees, including responses to pandemic and epidemic-prone diseases with the potential for region-wide impact.
- Monitoring, evaluation and action (ME&A) cycles: Regions will also implement their ME&A cycles to: (1) measure and review IA2030 indicator data from countries on a regular basis; (2) assess regional/national and partner/CSO progress using tailored indicator scorecards, identify potential root causes of success and failure, and identify areas for improvement; and (3) recommend actions for improvement of regional performance and identify technical support needed for countries to plan and implement actions to improve programme performance. These cycles will need to take into account the impact of COVID-19, such as when estimating baseline immunization coverage.
- Development partner coordination. Regional priorities will be reflected in regional operational plans with key focus areas for support across Member States. Initial plans are likely to include a stock-taking timepoint as countries emerge from the COVID-19 pandemic, allowing for regions to reset priorities. Development partners will pledge their commitments (e.g. support for specific technical functions) for IA2030, contributing to coordinated support to Member States and promoting greater accountability. Strengthened Regional Interagency Coordinating Committees (RICCs) can align development partner strategies to regional IA2030 priorities. Regional working groups (RWGs) coordinating development partner systematic inclusion of CSOs.
- **CSO commitments.** CSOs will increase the transparency of commitments, roles and contributions to immunization. They will reflect their commitments in pledges.
- Shared commitments through regional political and economic mechanisms. Member States will guide the process of seeking commitments and monitoring progress through mechanisms at regional (e.g. African Union, European Union, Association of South-East Asian Nations) or sub-regional (e.g. Southern African Development Community) levels. Political commitments will complement technical commitments and mobilize the support of wider ownership and accountability by partners beyond immunization and health.

Table 4: Regional Implementation of IA2030

Regional Implementation of IA2030			
Commitment	To achieve and sustain national and regional immunization goals & targets		
Differentiated IA2030 Priorities	According to country context (e.g., coverage & equity, hesitancy, integration of services, outbreaks, quality assured vaccine supply, sustainability)		
Advocacy & Communications	National communication and advocacy platfor	rms	
Coordinated Operational Planning	Monitoring & Evaluation	Ownership & Accountability	
	Tools & Structures		
 Regional IA2030 Plans 3-5 year regional operational plans Regional Working Groups (e.g., strengthening of existing Gavi groups to include CSOs and coordinate support to non-Gavi countries) Regional Interagency Coordinating Committees 	 IA2030 Impact Goal indicators, Global and Regional SP Objective indicators, and additional SP Objective indicators selected by regions tailored to needs and context Scorecards with country and regional progress Scorecards for partner/CSO progress WHO-UNICEF Joint Reporting Form WHO Immunization Information System 	 RITAGS Regional Committees Regional Working Groups Other Regionally tailored structures (e.g., Regional Cooperation Organizations, Regional Accountability Councils) 	
Processes			
 RITAGs facilitated by development partners recommend key technical areas for focus across Member States Coordination with UHC and PHC Coordination with disease-specific initiatives 	 Monitor: compile country data to report on indicators Evaluate: assess regional/national & partner/CSO progress using tailored indicator scorecards and identify potential root causes of success and failure Act: Recommend actions for regional perfomance improvement and identify technical support needed for countries 	 Multi-year pledges from Partners/CSOs Routine opportunities for consultative engagement organized by Working Groups 	

Global commitments

3.7. As presented above in Section 2 on O&A, Member States, development partners and civil society will work together at the global level to ensure the highest level of financial, technical and political commitment to IA2030. They will also coordinate responses in priority areas with a global reach, such as advocacy, vaccine supply, innovation and technical guidance. Initial commitments will prioritize COVID-19 vaccine implementation (e.g. through COVAX and Gavi), as well as supporting efforts to re-establish routine immunization and essential services to pre-COVID-19 baseline levels through 2022 and 2023.

3.8. In addition, global partners and CSOs will be encouraged to implement **regular ME&A cycles** to: (1) monitor IA2030 indicator data from countries and regions on a regular basis; (2) evaluate progress to achieve Impact Goals and Strategic Priority Objectives, including independent technical review by SAGE, and (3) identify actions for performance improvement at the global level, and performance gaps to address at regional and country levels. Independent review by SAGE will include: a) assessing regional/national and partner/CSO progress using tailored indicator scorecards, and b) recommending actions for performance improvement, and areas for further evaluation by working groups and disease-specific initiatives to identify root causes of success and failure. ME&A cycles will need to take into account the impact of COVID-19 when estimating baseline progress.

Table 5: Global Commitments to IA2030

Global Implementation of IA2030		
Commitment	To sustain the highest level of technical and financial commitment to IA2030	
Differentiated IA2030 Priorities	According to global function (e.g., coordination, vaccine supply, normative guidance, research & innovation, financing)	
Advocacy and communication	Global Communication and Advocacy Focal Pc	bints
Coordinated Operational Planning	Monitoring & Evaluation	Ownership & Accountability
	Tools & Structures	
 IA Partnership Council (IAPC) IA2030 Working Groups Disease-specific strategies and road maps (e.g., GPEI, MRI) Other Global and Contributing Strategies (e.g., SDGs, UHC 2030, Gavi 5.0, COVAX, partner strategies) 	 IA2030 IG indicators and Global SP Objective indicators WHO-UNICEF JFF WHO Immunization Information System Scorecards with country and regional progress Scorecards for partner/CSO progress 	 IA Partnership Council (IAPC) Coordination Group WHO Strategic Advisory Group of Experts World Health Assembly
Processes		
Operational plans by topics or SP as need arises	 Monitor: country and regional data on IG and SP indicators; compile partner/CSO data to report on progress Evaluate: assess progress using scorecards and identify potential root causes of success and failure Act: for performance improvement at global level 	 Multi-year pledges from Partners/CSOs Routine opportunities for consultative engagement organized by Working Groups

4. IA2030 in the context of COVID-19

4.1. The COVID-19 pandemic has starkly illustrated the strengths and fragilities of immunization programmes. It has re-emphasized the value of immunization and the need for a flexible and sustainable approach to build country, regional and global immunization capacity.

4.2. COVID-19 vaccines, some based on innovative new technological platforms, were developed, evaluated and licensed at unprecedented speed. Valuable lessons can be learned from this experience to accelerate vaccine research and development (R&D) for other infectious diseases for which vaccines are not yet available.

4.3. As discussed in previous sections, IA2030 was developed to anticipate pandemics and regional outbreaks while maintaining a focus on progressive improvement in immunization programmes over a decade. In addition to embedding COVID-19 vaccine implementation and recovery throughout planning processes, the IA2030 Strategy's **technical annexes**⁸ provide guidance that can be applied to COVID-19 responses, such as:

- **Outbreaks & Emergencies (SP5):** Guidance on the immediate responses needed, including aspects of surveillance, maintaining immunization and other primary health care services, and engaging communities.
- Vaccine Supply & Sustainability (SP6): Guidance on the innovative incentives needed to engage manufacturers to develop products for an emerging pathogen.
- **Commitment and Demand (SP2):** Guidance on how to maintain political commitment beyond COVID-19 vaccines, and how to maintain trust and demand for vaccines at all ages.

⁸ Available on the IA2030 website: http://www.immunizationagenda2030.org

- **Coverage and Equity (SP2):** Guidance on how to reach all intended target groups for vaccination, including vulnerable communities and those in conflict-affected settings.
- **Research & Innovation (SP7):** Guidance on implementation and operational research supporting immunization services in the context of emerging challenges.

Guidance is also provided on re-building services and ongoing prevention:

- Immunization within PHC/UHC (SP1): Guidance on vaccine safety monitoring, supply chain and logistics, and availability of a skilled health workforce as well as recovery through an integrated PHC approach.
- Life Course & Integration (SP4): Guidance on implementation of vaccination strategies for older age groups, including adults, with COVID-19 vaccine introduction providing an opportunity to establish and strengthen vaccine platforms for older age groups.

4.4. In particular, COVID-19 is impacting approaches to regional and country planning, given that the future course of the pandemic is uncertain. Priority is on near-term, two- or three-year plans for implementing COVID-19 vaccines and re-building of essential services. As the course of recovery becomes more clear, regions and countries will update plans, in consultation with technical experts and regional organizations.

4.5. COVID-19 is also likely to impact the development of M&E Frameworks by countries and regions. For example, baseline data and targets are likely to need adjustment, and additional indicators might be needed as more is learned about the impact of COVID-19 on services and how quickly services recover.

4.6. More positively, the COVID-19 vaccine deployment and response efforts currently underway across the globe are valuable opportunities to further strengthen the economic case for equitable immunization programmes and to stress the importance of multilateral coordination to global recovery.

5. Learning Agenda for the path ahead

5.1. IA2030 is a living and evolving strategy for the COVID-19 years and the decade ahead. Member States, development partners and CSOs will need to build from the initial operationalization outlined in this document to address emerging challenges and contextual changes. Mechanisms will need to be created (for example with support from the IA Partnership Council) to capture learning and associated recommendations.

5.2. In particular, the IA2030 M&E Framework should remain fit for purpose for the new decade. Thus, the Framework should be reviewed and updated at least once every three years in response to changing needs and improvements in M&E methods to ensure it delivers the data required to improve programme performance. Similarly, the IA2030 technical annexes will also require regular updates over the decade. This need for flexibility is highlighted by the uncertainty associated with recovery from the COVID-19 pandemic and the implementation of COVID-19 vaccines.

5.3. An initial set of core questions and topics have been identified for the IA2030 Learning Agenda and are provided below for each operational element.

Ownership & Accountability

- The implications of changing political and financial commitments to immunization, and IA2030 more broadly, in the context of COVID-19 and implementation of COVID-19 vaccines.
- The most efficient means to engage diverse CSOs to strengthen community-level ownership and accountability for immunization.
- The added value of strengthened fora (e.g. Regional Working Groups) or new mechanisms (e.g. IA2030 Partnership Council) and tools designed to secure and sustain stronger ownership and improve accountability (e.g. public pledges and tailored scorecards).
- A review of O&A mechanisms after three years (2023) to identify the need for course corrections.

Operational Planning

- Reviews of how country and regional plans shift during the course of the COVID-19 pandemic and as its influence begins to recede.
- Planning and review processes that extend beyond the traditional WHO/UN mechanisms and engage diverse development partners and CSOs.
- Opportunities for more efficient, timely and reliable data collection and use through digital innovations.

Monitoring & Evaluation

- Review potential means to strengthening capacity at country, regional and global levels to implement ME&A cycles with effective feedback loops.
- Identify means to strengthening both the quality and the use of data for M&E Framework indicators
- Further development of Impact Goal and Strategic Priority Objective indicators and identification of additional indicators needed to identify and track severe gaps in health system performance (see Annex 1).
- Consider linkages with existing monitoring processes and use other data sources to IA2030 ME&A cycles, including use of the WHO Immunization Information System (WIISE). Efforts should should be made to identify owners and actions for all IA2030 indicators and to decrease the data-reporting burden for countries.

Communication & Advocacy

- Responsiveness to changing attitudes around immunization and adaptation of strategies as appropriate.
- Ways to solicit and secure greater community-driven commitment to immunization through CSOs and the subsequent translation into increased national and regional commitments.
- Means to respond to misinformation about vaccines disseminated through changing social media platforms and other ways mis- and dis-information are spread.

List of Acronyms

AEFI	Adverse Events Following Immunization
AFP	Acute Flaccid Paralysis
AQE	Adequacy, Quality, Efficiency
BeSD	Behavioural and Social Drivers
BMGF	Bill and Melinda Gates Foundation
BCG	Bacillus Calmette–Guérin
C&A	Communications and Advocacy
ССІ	Cold Chain Inventory
CCI	Composite Coverage Index
ССРМ	Cohort Component Projection Model
CDC	Centers for Disease Control and Prevention
CEA	Coverage and Equity Analysis
CSO	Civil Society Organization
DHIS2	District Health Information Software 2
DTP	Diphtheria, Tetanus, Pertussis
DTPcv-1	DTP-containing vaccine-1
EIR	Electronic Immunization Register
EOC	Emergency Operations Centre
EPI	Expanded Programme for Immunization
EVMA	Effective Vaccine Management Assessment
GAVI	Global Alliance for Vaccines and Immunizations
GGHE	General Government Health Expenditure
GPEI	Global Polio Eradication Initiative
GPW13	Thirteenth General Programme of Work
GVAP	Global Vaccine Action Plan
HBR	Home-Based Records
Hib	Haemophilus Influenzae Type B
HIC	High-Income Country
HIS	Health Information System
HMIS	Health Management Information System
HPV	Human Papillomavirus
HPVc	Human Papillomavirus complete series
HSCC	Health Sector Coordinating Committee
IA2030	Immunization Agenda 2030
IAPC	IA2030 Partnership Council
ICC	Inter-agency Coordinating Committee
IG	Impact Goal

IHME	Institute for Health Metrics and Evaluation
ISCO	International Standard Classification of Occupations
IVIR-AC	Immunization and Vaccines Related Implementation Research Advisory Committee
JE	Japanese Encephalitis
JRF	Joint Reporting Form
LMIS	Logistics Management and Information System
LQA	Lot Quality Assurance
MCV-2	Measles-containing vaccine, dose 2
M&E	Monitoring and Evaluation
M&RI	Measles and Rubella Initiative
ME&A	Monitoring, Evaluation and Action
MenA	Meningococcal group A
MI4A	Market Information for Access for Vaccines
MIC	Middle-Income Country
MOV	Missed Opportunities for Vaccination
NCU	National Currency Unit
NHWA	National Health Workforce Accounts
NIS	National Immunization Strategy
NITAG	National Immunization Technical Advisory Group
NRA	National Regulatory Authority
O&A	Ownership and Accountability
OPV	Oral Poliovirus Vaccine
РАНО	Pan-American Health Organization
PCV-3	Pneumococcal Conjugate Vaccine-3
РНС	Primary Health Care
PHEOC	Public Health Emergency Operations Centre
R&D	Research and Development
RICC	Regional Interagency Coordinating Committee
RITAG	Regional Immunization Technical Advisory Group
RWG	Regional Working Group
RO	Regional Office
SAGE	(WHO) Strategic Advisory Group of Experts
SDGs	Sustainable Development Goals
SP	Strategic Priority
SIA	Supplemental Immunization Activity
тв	Tuberculosis
UHC	Universal Health Coverage
UHC-SCI	Universal Health Coverage-Service Coverage Index
UNDP	United Nations Development Programme

UNICEF	United Nations Children's Fund
VIMC	Vaccine Impact Modelling Consortium
VPD	Vaccine-Preventable Disease
WHA World Health Assembly	
WHO	World Health Organization
WHO DDI	WHO Data, Analytics and Delivery for Impact
WHO GHED	WHO Global Health Expenditure Database
WHO GHER	WHO Global Health Expenditure Report
WHO IVB	WHO Immunization, Vaccines and Biologicals
WIISE	WHO Immunization Information System
WUENIC	WHO and UNICEF Estimates of National Immunization Coverage
wVSSM Web-based Vaccination Supplies Stock Management	

Annex 1 – Monitoring and Evaluation Framework

Impact Goal (IG) Indicators:

MONITOR How will progress be monitored?	EVALUATE How will results of monitoring be evaluated?	ACT How will evaluation be used for action?
Definition:	Baseline:	Global, regional, and country partners can use evaluation
Total number of future deaths averted from 2021-2030, based on the IA2030 coverage scenario	4.3 million deaths averted per year (2019)	findings for <u>advocacy</u> in securing commitment and resources for immunization programmes.
Measurement approach: A modelling approach is used to project the number of deaths averted at the global and regional levels by achieving aspirational coverage targets for IA2030. These targets are also aligned with the Impact Goal indicator 2.2. The initial scope focuses on 14 pathogens, which will be expanded to update the estimates at the midpoint of IA2030	Total number of deaths averted due to vaccination in 2019 based on the historical WUENIC estimates; 2019 was used as the baseline year, rather than 2020, to capture the pre- COVID-19 trend. The estimates are measured relative to zero coverage level (absence of vaccination). Target: Increase to 5.8 million deaths averted in 2030	Specific recommendations by vaccine highlighted in evaluation may be used to plan <u>disease-specific</u> <u>interventions</u> at global and regional level
IA2030.	Increase to 5.8 million deaths averted in 2030 50 million total deaths averted during 2021-2030	
2021-2030 : Hepatitis B, Hib, HPV, JE, measles, MenA, <i>Streptococcus pneumoniae</i> , rotavirus, rubella, yellow fever, diphtheria, tetanus, pertussis, TB (BCG) By 2025 : Polio, typhoid, influenza, cholera, multivalent	Total number of future deaths averted due to vaccination from 2021-2030 based on the aspirational coverage targets described in impact goal 2.2.	
Calculation:	For this purpose, 2030 country-level coverage estimates were calculated based on the achievement of three goals all countries are urged to pursue:	
 Observed and averted deaths, collected from multiple data sources, are converted into a 	 a) Introduction of any missing recommended vaccines 	
single measure of country-, age-, and vaccine- specific relative risk of death conditional upon coverage levels.	 b) A reduction in zero-dose children by half, compared with 2019 baseline 	
 The relative-risk model is used to predict deaths averted in all locations and diseases. 	 Achievement of DTPcv-1 coverage that is consistent with the aforementioned zero-dose 	
- Additional calibration step converts the	reduction and coverage for all other vaccines	
estimates into deaths averted by year of	Within a 5% range of DTPcv-1	

INDICATOR 1.1 Number of future deaths averted through immunization

vaccination, which allows for capturing the

Frequency of reporting: Twice (starting point and midpoint of IA2030) for target setting. The target will be updated for the midpoint based on the expanded scope of pathogens and model updates.	lifetime effect of vaccination aggregated for the year the vaccines are delivered. Data source: WHO-UNICEF Immunization Coverage estimates, estimates of deaths averted from Vaccine Impact Modelling Consortium (VIMC), Global Burden of Disease Study, and other model inputs from published literature. Stakeholder(s) responsible for measurement: WHO IVB and DDI project team, project stakeholder committee (BMGF, CDC, Gavi, IHME, VIMC, VIMC Scientific Advisory Board, IVIR-AC, WHO DDI, WHO IVB)
Frequency of evaluation: Twice (midpoint and endpoint of IA2030) for monitoring and reporting. The midpoint evaluation will focus on 14 pathogens only, based on the models used for the starting point. The endpoint evaluation will focus on the expanded scope of pathogens based on the updated models from the midpoint.	 UNPD population estimates for 2019, and projected estimates for 2030 were used to convert absolute numbers of unvaccinated children to equivalent DTPcv-1 targets. Analysis and interpretation: Analysis conducted by the WHO IVB and DDI project team; results displayed on shared dashboard; reported at global and regional level Results disaggregated by pathogen and year of vaccination

	Ī
	ĕ
	4
	R
	2
	Z
	B
	Ř
	anc
-	ק
-	g
	<u>a</u>
	Š
	ę,
	ŝ
	<u>n</u>
	ries
	\$
	at I
	lav
	ര് ച
	<u>S</u>
	eve
	ä
¢	egi Bi
	Suo
	<u> </u>
¢	20
	^b
	<u>ا</u>
	B
	<u>6</u>
	ntr
	<u> </u>
	elin
	lin:
	atic
	ž
	anc
	er
	adi
	cat
	ġ

	targets	
MONITOR How will progress be monitored?	EVALUATE How will results of monitoring be evaluated?	ACT How will evaluation be used for action?
Definition: Achievement of all VPD control, elimination, and eradication targets; endorsed by a global or regional body of WHO Member States, with target dates between 2021 and	Baseline: Number and proportion of countries that have achieved each VPD control, elimination, and eradication target by the end of 2021*.	Global, regional, and country partners can use evaluation findings for operational planning, and for communication and advocacy to:
Measurement approach: Two monitoring and evaluation cycles will occur annually. The first is the indicator and	 Target: All countries achieve the endorsed regional or global VPD control, elimination, and eradication targets. 	 ensure needed support to countries to achieve VPD control, elimination, and eradication initiatives,
revision cycle. WHO Regional Offices will conduct a review to confirm and revise the inclusion criteria for each VPD based on, the global or regional endorsement status, target time frame, and the target type and definition.	Analysis and interpretation: The achievement status of each VPD control, elimination and eradication target, based on incidence and prevalence measures, will be monitored annually. Progress will be monitored and reported during	 highlight and reinforce coordination of strategies to link VPD control, elimination and eradication initiatives with health system strengthening initiatives.
The second is the assessment and reporting cycle. Established regional verification and certification commissions, or verification committees, will assess the achievement status of the disease specific VPD target for	the decade to identify countries at risk of not achieving the target by the specified target date, and to provide visibility of disease-specific progress and risk for adjacent countries and regions.	
each country. Calculation: Numerator is the number of countries that met the VPD target, and the denominator is the number of countries with an endorsed VPD target based on incidence or prevalence measures. Data source: Verification, certification, and disease-specific committee reports.	Annual monitoring of the indicator confirmation and revision cycle will identify the need for new control, elimination, and eradication goals, or changes to the existing targets. The process will also document possible differences across the regions to provide an opportunity to harmonize the target definitions. Frequency of evaluation: Annual.	
Stakeholder(s) responsible for measurement: Verification and certification commissions, and validation committees established by WHO Regional Offices with technical assistance from VPD control, elimination, and eradication initiatives. ⁹		
Frequency of reporting: Annual		

⁹ Disease-specific initiatives include: GPEI Polio Endgame Strategy 2021–2026; Measles and Rubella Strategic Framework 2021–2030; Ending Cholera – A Global Roadmap to 2030; Global Health Sector Strategy on Viral Hepatitis 2016–2021; Defeating Meningitis by 2030 Roadmap; Global Influenza Strategy 2019–2030; Zero deaths from dog-mediated rabies by 2030 (Zero by 30: The Global Strategic Plan); Achieving and sustaining maternal and neonatal tetanus elimination: Strategic Plan 2012-2015; Global Vector Control Response 2017–2030; Eliminate Yellow Fever Epidemics

INDICATOR 1.3 Number of large vaccine-preventable disease outbreaks

MONITOR

How will progress be monitored?

Definition: A VPD outbreak* meeting size criteria for large outbreaks aligned with global eradication, elimination, or control strategies and at least one criterion from Annex 2 of the International Health Regulations (https://www.who.int/ihr/annex_2/en/)

*including cholera, Ebola, meningococcus, measles, polio, yellow fever; the list could be revised, especially as additional diseases become vaccine preventable.

Measurement approach: Large VPD outbreaks will be identified using data from specific VPD control programmes and from WHO World Health Emergencies surveillance systems. Different criteria will be applied for each disease. For multi-country outbreaks, each country's portion of the outbreak will be assessed separately. The overall indicator will function as a composite combining data across the different diseases.

Calculation: A collective count of outbreaks of epidemic prone diseases that meet set size criteria, such as the number of cases or disease incidence

Data source: VPD eradication, elimination, and control programmes and the WHO World Health Emergencies surveillance systems

Stakeholder(s) responsible for measurement: International Coordinating Group for Vaccine Provision, WHO Headquarters and WHO Regional Offices with technical assistance from VPD control, elimination and eradication initiatives¹⁰

Frequency of reporting: Annual

EVALUATE How will results of monitoring be evaluated? Baseline: The mean number of large VPD outbreaks for three years starting in 2019. The inclusion of year 2020 will be determined following a review of the data reported during the COVID-19 pandemic. If the 2020 data are excluded, based on concerns of completeness or validity, the baseline will consist of years 2018, 2019, and 2021.

Target: 50% reduction in the 3-year mean number of large VPD outbreaks compared to baseline.

Analysis and interpretation: The target will be achieved if the mean of the final three years of data (2028-2030) is at least 50% less than the baseline. Progress will be based on the annual comparison of the current three-year mean and the baseline. Annual trends in the number of large outbreaks of each VPD indicate progress of country, regional, and global efforts to prevent and control VPD outbreaks. Analysis of related data, such as those captured by other Impact Goal and Strategic Priority indicators, will help identify reasons for progress or lack of progress towards this goal.

Frequency of evaluation: Annual

ACT How will evaluation be used for action?

Global, regional, and country partners can use evaluation findings for operational planning, and for communication and advocacy to:

- ensure timely availability and strategic allocation of vaccines and supplies, mobilization of trained human resources for outbreak response
- ensure capacity of immunization programmes to anticipate, prepare for, detect and rapidly respond to VPD and emerging disease outbreaks
- ensure capacity of immunization programmes to establish timely and appropriate immunization service delivery during emergencies and in communities affected by conflict, disaster and humanitarian crisis
- ensure vaccine introduction and scale up of coverage to prevent newly emerging VPDs
- use measles cases and outbreaks as a tracer to identify weaknesses in immunization programmes, and to guide programmatic planning in identifying and addressing these weaknesses.

Implementing the Immunization Agenda 2030

Response 2017–2030; Eliminate Yellow Fever Epidemics

¹⁰ Disease-specific initiatives include: GPEI Polio Endgame Strategy 2021–2026; Measles and Rubella Strategic Framework 2021–2030; Ending Cholera – A Global Roadmap to

rabies by 2030 (Zero by 30: The Global Strategic Plan); Achieving and sustaining maternal and neonatal tetanus elimination: Strategic Plan 2012-2015; Global Vector Control 2030; Global Health Sector Strategy on Viral Hepatitis 2016–2021; Defeating Meningitis by 2030 Roadmap; Global Influenza Strategy 2019–2030; Zero deaths from dog-mediated

INDICATOR	2.1. Number of zero-dose children	
MONITOR How will progress be monitored?	EVALUATE How will results of monitoring be evaluated?	ACT How will evaluation be used for action?
Definition : Zero-dose children are defined as those that lack access to or are never reached by routine immunization services. They are operationally measured as those who lack a first dose of a DTP- containing vaccine.	Baseline: 14 million children (2019) Target: Reduction in the number of zero-dose children by 50% (all levels). In countries where DTP1 coverage already reaches 99%, the target is to maintain	At the global and regional level, the number of zero-dose children by region and country will lead to a prioritization of efforts, and can be used to create accountability for countries that do not reach targets, or backslide from
Measurement approach : This indicator is calculated as the difference between the estimated number of surviving infants and the estimated number of children vaccinated with DTPcv-1.	coverage. Analysis and interpretation: The level and trend of the number of zero-dose children needs to be analysed with	previously attained targets. Furthermore, it can be used to communicate about immunization gaps that exist in the world, and advocate for concerted efforts to bridge
The number of zero-dose children will be determined at country, regional and global level using WHO and UNICEF estimates of national	an equity lens, aiming to find out where inequalities might point to barriers to immunization across specific	them.
immunization coverage (WUENIC) and UNPD population estimates of birth cohorts, adjusted for surviving infants.	populations and geographies. This requires disaggregation by subnational levels and other dimensions (socio-economic, language group, ethnicity)	At the country and subnational level, identifying zero-dose children and underserved communities should facilitate a
At the national and subnational level, administrative reporting systems can also be used, together with any in-country survey results and other information sources that can help countries establish estimates for zero- dose children.	as available. In this context, the number of zero-dose children needs to be used to identify underserved, undervaccinated communities	root-cause analysis of the reasons for under- vaccination, and identification of the barriers that exist for certain communities and geographies. From a communication perspective the importance of this indicator
Calculation: This indicator is calculated as the difference between the estimated number of surviving infants and the estimated number of children vaccinated with DTPcv-1.	Frequency of evaluation: Annual at global and regional levels. Ideally quarterly at national and subnational levels.	will highlight the need to focus on equity in immunization.
Data source: WUENIC, UNPD population estimates Stakeholder(s) responsible for measurement: WHO IVB, national immunization programmes		
Frequency of reporting: Annual at regional and global levels, monthly at national and subnational levels		

₹
Ð
<u></u>
H
R
ώ
:
SD
õ
<u>ω</u> .
2.1
6
ĕ
Tag
e
e f
۷a
<u><u> </u></u>
ne
ŝ
nc
lec
=:
с С
ati
ē
al
Ħ
Ĕ
n
liza
đ
no
SC
he
du
les
Ĩ
H
ŝ
2
2
12,
I
P
Ċ,
PC
Ś
2

MONITOR How will progress be monitored?	EVALUATE How will results of monitoring be evaluated?	ACT How will evaluation be used for action?
Definition : Immunization coverage for DTPcv-3, MCV-2, PCV3 and HPVc	Baseline: 85% DTPcv-3, 71% MCV-2, 48% PCV3 and 15% HPVc (2019)	At the global and regional level, coverage estimates will be used for prioritization, and to create accountability for
Measurement approach: Immunization coverage for a certain year is defined as the proportion of the targeted	Target: Global level: 90% coverage for all by 2030 Country level:	countries that do not reach targets, or backslide from previously attained targets. Furthermore, coverage estimates can be used to
population that received the relevant vaccine and dose in that year.	 Plan introduction of all globally recommended vaccines by 2030 	communicate about immunization gaps that exist in the world, and advocate for concerted efforts to bridge them.
Coverage will be determined at country, regional and global levesl, using WHO and UNICEF estimates of national immunization coverage (WUENIC). Note that for WUENIC, the annually targeted population for globally recommended vaccines comprises the entire global	 Ensure coverage for each vaccine reaches levels within a 5% range from DTPcv-1 Analysis and interpretation: Level and trend, disaggregated by geography and other dimensions (socio-economic, language group, ethnicity) as available. Frequency of evaluation: Annual at global and regional 	 At the country and subnational level, measuring the level and trend of coverage, as well as estimates of vaccinated people (numerators), can help establish whether: Immunization programmes are showing desired progress overall, by geography, and by population group.
cohort of surviving infants, regardless of whether the vaccine was introduced in their country. At the national and subnational level, administrative reporting systems can also be used, together with any in- country survey results and other information sources that can help countries establish coverage estimates.	Frequency of evaluation: Annual at global and regional levels. Ideally quarterly at national and subnational levels.	 Broup: Immunization platforms for the different age groups perform adequately. Vaccine-specific barriers exist. Immunization programmes can then implement any corrective action.
Calculation: Denominator is estimated population of target group of children that should receive DTPcv-3, MCV-2, PCV3 and HPVc. Numerator consists of target population who have received DTPcv-3, MCV-2, PCV3 and HPVc. Target population of children and their appropriate age for last dose is determined by national immunization schedule.		
Data source: WHO and UNICEF estimates of national immunization coverage (WUENIC)		
Stakeholder(s) responsible for measurement: WHO IVB, national immunization programmes		
Frequency of reporting: Annual at regional and global levels, monthly at national and subnational levels.		

INDICATOR 3.2.	Universal Health Coverage Service Coverag	e Index
MONITOR How will progress be monitored?	EVALUATE How will results of monitoring be evaluated?	ACT How will evaluation be used for action?
Definition: Coverage of essential health services will be measured using the Universal Health Coverage – Service Coverage Index (UHC SCI). The indicator is defined as the average coverage of essential	Baseline: UHC: national-level UHC SCI values from 2019.	Global, regional, and country partners can use evaluation findings for operational planning, and for communication and advocacy to:
services based on tracer interventions that include reproductive, maternal, newborn and child health, infectious diseases, non- communicable diseases and service capacity and access, among the	Target: Improve UHC Index of Service Coverage at country, regional and global levels.	 identify potential root causes of success and f and areas for improvement in increasing the U
general and the most disadvantaged population.	Analysis and interpretation: Indicators of service coverage – defined as people	SCI
Measurement approach: Indicator SDG 3.8.1 - Coverage of essential health services.	receiving the service they need – are the best way to track progress in providing services under UHC. Since	 indentity sectings with missed opportunities to improved coverage through better integration
commonly referred to as the Universal Health Coverage (UHC) Index of service coverage (UHC SCI) will be the initial metric to	a single health service indicator does not suffice for monitoring UHC, the UHC SCI is constructed from 14	 ensure needed support to countries to improve the support of health success strengthening
measure key aspects of UHC and Primary Health Care (PHC). The metrics used to measure UHC and PHC will likely evolve over the	tracer indicators selected based on epidemiological and statistical criteria. The index is reported on a	efforts
decade with advances in data and understanding. The target for	unitless scale of 0 to 100, with 100 being the optimal	 promote alignment of IA2030 and UHC
the IG3.2 indicator will also evolve to ensure immunization programme's contribution to PHC/UHC is best measured.		 promote efforts to integrate delivery and utili

Data sources: UHC SCI.

reducing missed opportunities.

Safety; and UHC2030.

Care Performance Initiative; WHO Deptment of Service Delivery and Division of Data, Analytics and Delivery for Impact; Primary Health Stakeholder(s) responsible for measurement: WHO IVB; WHO and global means will be calculated.

Calculation: UHC SCI will be reported at the country level, regional

service coverage. It will not be reported together with SDG

The UHC SCI will be reported as a standalone indicator of health

indicator 3.8.2, which focuses on financial hardship caused by direct

health care payments, a key component of UHC.

Frequency of reporting: Every second year.

P St & T	¥ 7	Frequency of evaluation: Every second year. • el	monitoring bi-annual trends in the UHC SCI values at At a cc the country, regional, and global levels. indicat	Progress towards the target will be assessed by of	unitless scale of 0 to 100, with 100 being the optimal • provide value.	a single health service indicator does not suffice for en monitoring UHC, the UHC SCI is constructed from 14 U tracer indicators selected based on epidemiological and statistical criteria. The index is reported on a efforts of the service of the	Indicators of service coverage – defined as people id receiving the service they need – are the best way to track progress in providing services under UHC. Since in	Analysis and interpretation: • id	Baseline: Global UHC: national-level UHC SCI values from 2019. evalua Tarret: Improve IIHC Index of Service Coverage at comm	now will tesuits of monitoring be evaluated:
HC, across the life course.	trengthen delivery of integrated services as part of	ensuring immunization programmes are an integral part of national PHC strategies and operations, as vell as national strategies for UHC.	ountry and subnational level, monitoring this tor should particularly help in:	promote efforts to integrate delivery and utilization of immunization and other UHC/PHC services	promote alignment of IA2030 and UHC	ensure needed support to countries to improve JHC SCI as part of health system strengthening efforts	dentify settings with missed opportunities for mproved coverage through better integration	dentify potential root causes of success and failure and areas for improvement in increasing the UHC CI	 regional, and country partners can use ation findings for operational planning, and for nunication and advocacy to: 	will evaluation be used for actions

Strategic Priority Objective Indicators Summary

Additional regional and country indicators for monitoring SP Objectives will be developed by regions and countries for inclusion in their IA2030 M&E plans.

Table 1: Indicator summary for monitoring SP1 at all levels

SP1: IMMUNIZATI	ON PROGRAMMES FOR PHC/UHC	
SP Objective 1.1: R	teinforce and sustain strong leadership, management and o	coordination of immunization programmes at all levels
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Proportion of countries with evidence of adopted mechanism for	Aligns with global-level monitoring: Proportion of countries with evidence of adopted mechanism for monitoring, evaluation and action at national and sub-national levels Indicator options:	Aligns with global-level monitoring: Mechanism in place for monitoring, evaluation and action at national and sub-national levels Indicator options:
monitoring, evaluation and action	 % of countries with district health management committees (or equivalent at subnational level) that review immunization 	 % of district health management committees (or equivalent at subnational level) that review immunization performance as
at national and sub- national levels	performance as part of primary health care performance at least annually	part of primary health care performance at least annually 2. Multisector coordination mechanisms functional at all levels
	 % of countries with up-to-date Immunization Technical Guidelines (not older than 5 years) % of countries with functional later account for a finite section. 	 Number of health facilities reached with supportive supervision visit
	 % of countries with functional interagency coordinating Committee (ICC) % of countries with functional National Immunization 	 reflectinge of facilities that are led by a manager(s) who has official management training (for example, a certification, diploma, or degree)
	Technical Advisory Groups (NITAGs) 5. % of countries with functioning Public Health Emergency Operations Centres (PHEOCs), polio or malaria EOCs capable of responding to VPD outbreaks	 Number of times annually that a Public Health Emergency Operations Centre (PHEOC) or disease-specific EOC is activated for VPD outbreaks
SP Objective 1.2: E	insure the availability of an adequate, effective, sustainable	e health workforce
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Density of physicians, nurses and midwives	Aligns with global-level monitoring: Density of physicians, nurses and midwives per 10,000 population	Aligns with global-level monitoring: Density of physicians, nurses and midwives per 10,000 population

~	~
\sim	2
	5
5	
	-
2	2
_	5
)
-	÷
_	
N	
	2
C	С
	``
11	~
-	-
_	
5	
)
7	5
9	2
9)

SP Objective 1.4: Se primary health care	Proportion of countries with 90% f on-time reporting from 90% of districts of all priority vaccine- preventable diseases included in nationwide surveillance (including reporting of zero cases)	Indicator selected (for global monitoring	SP Objective 1.3: Bu health surveillance :	per 10,000 population
cure high-quality supply chains for vaccines and related c supply system	 Nligns with global-level monitoring: Proportion of countries with 90% on-time reporting from 90% of listricts for suspected cases of all priority vaccine-preventable liseases included in nationwide surveillance (including reporting of ero cases) mdicator options: % of countries achieving the non-measles/non-rubella discard rate of ≥2/100,000 persons and the non-polio acute flaccid paralysis rate of >1/100,000 among <15 years population) in a 12-month period % of countries with access to laboratory capacity to test for at least one bacterial VPD 	Options for regional monitoring	iild and strengthen comprehensive vaccine-preventable d system, supported by strong, reliable laboratory network	 ndicator options: % countries that achieve the recommended density of health workers per 10,000 population (five occupations are monitored within this indicator: medical doctors, nursing personnel, midwifery personnel, dentists, pharmacists) % of countries with >90% of vaccination posts having trained health staff. % countries with >25% gap in immunization staff % of countries with health workforce competencies established
ommodities and effective vaccine management, within the	 Aligns with global-level monitoring: % of districts reporting at least 90% on time during a one-year period for suspected cases for all priority VPDs under nationwide surveillance, including reporting of zero cases. Indicator options: Non-polio acute flaccid paralysis rate (target >1/100,000 among <15 years population) in a 12-month period Non-measles/non-rubella discard rate (target ≥2/100,000 population) Access to laboratory capacity to test for at least one bacterial VPD 	Options for country monitoring	sease surveillance as a component of the national public	 Indicator options: Health staff competent in immunization per 10,000 population per region Number of health workers per 10,000 population by cadre (nurse, midwife, physician, community health worker) with disaggregation by gender, age, level of service delivery, managing authority, and subnational administrative area. Number and % of service delivery points with a trained vaccinator in the last 2 years Ratio of unfilled posts to total number of posts, by occupation and by subnational level (% vacant positions of nursing and frontline health workers)

U	U
F	2
2	2
2	2
2	5
-	2
	Ś
2	5
F	7
5	1
2	5
ž	5
11	ś

Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Proportion of time with full availability of DTPcv and MCV at service delivery level (mean across countries) countries)	 Aligns with global-level monitoring: Proportion of time with full availability of DTPcv and MCV at service delivery level (mean across countries) Indicator options: % of countries having electronic vaccine and supply stock management system to monitor vaccine stock down to service delivery % countries that carried out Effective Vaccine Management Assessment during the last 3 years % of countries meeting AQE (adequacy, quality, efficiency) score of 70% and above (EVMA score) % countries that have regularly updated and complete (min once per 6 months) cold chain inventories (CCI with geolocated CCE) % of countries below 1% closed vial wastage for PCV 	 Aligns with global-level monitoring: Full availability of DTPcv and MCV at service delivery level 1. % districts reporting stock availability (vaccines and supplies) at a service delivery level 2. % districts having electronic vaccine and supply stock management system to monitor vaccine stock down to service delivery 3. Stock out events of DTP or MCV at national level 4. Stock out events of DTP or MCV at sub-national level 5. Stock out events of DTP or MCV at sub-national level 6. Effective Vaccine Management Assessment (EVMA) conducted 7. Percentage of sites with functional PQS equipment 8. EVM score (not just whether it has been conducted) 9. Functionality of cold chain equipment 10. Closed vial wastage for PCV
SP Objective 1.5: Ir	nformation Systems	
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
None	 Indicator options: Number of countries in the region in which the percentage of population with access to personal immunization records* is ≥80%** includes both paper-based and digital records. **targets to be set at regional level. Evaluation score (e.g. Countries with Effective Information System Quality ≥90) % of countries with 90% or more completeness and timeliness reporting Proportion of countries that have: 	 Indicator options: % of population with access to personal immunization records Availability of sustainable and effective immunization information system integrated within a robust national health information system (HIS) % of districts with on-line access to HMIS % of live births registered Sound on under-vaccinated to inform plans at community, subnational and national levels

31 M
1arch 2021
version

	 Electronic immunization registers (EIR) with national 	8. Percentage of districts reporting negative DTP1-DTP3 drop out
	 coverage (i.e. an EIR that covers their entire population of children born in that year) An integrated HMIS that includes vaccination data A digital health information strategy 	9. Percent of districts with year-to-year variation of children vaccinated with DTP3 less than 15%
SP Objective 1.6: V	accine Safety	
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Proportion of countries with at least one	Recommended indicator: Proportion of countries that are reporting individual serious AEFI into Vigibase*	Aligns with global-level monitoring: Individual AEFI case safety reports per million total population
documented (with	Indicator options:	Indicator options:
and/or line listed)	the NRA and the immunization programme (i.e. the data on	The properties of provinces/districts of other submational dimes with at least one documented (with reporting form and/or line
individual serious AEFI case safety	serious AEFI cases reported in the JRF for the previous year is identical to the data uploaded to the Vigibase in the same	listed) individual serious AEFI case safety reports per million total population
report per million	year based on date of AEFI onset)	2. Proportion of serious* AEFI cases where causality assessment
total population	2. % of countries with a functional** AEFI committee	was done
	*this applies to ALL countries irrespective of access to Vigibase as countries are encouraged to report AEFI cases to Vigibase	*An event that results in death, is life-threatening, requires in- patient hospitalization or prolongation of existing
	progressively so that 100% of countries are reporting individual serious AEFI into Vigibase by 2030	hospitalization, results in persistent or significant disability/ incapacity. or is a congenital anomaly/birth defect. Any medical
	** as described in section 4.6 of the global manual on surveillance of AEFI accessed at	event that requires intervention to prevent one of the
	https://www.who.int/vaccine_safety/publications/Global_Manual_re vised_12102015.pdf?ua=1	outcomes above may also be considered as serious.

Table 2: Indicator summary for monitoring SP2 at all levels

SP2: COMMITMENT & DEMAND

SP Objective 2.1: Build and sustain strong political commitment for immunization at all levels

Indicator selected regional monitoringOptions for country monitoringOptions for country monitoringProportion of countries with global-level monitoring: immunization as a public goodAligns with global-level monitoring: regional monitoringAligns with global-level monitoring: regional monitoringProportion of public goodAligns with global-level monitoring: immunization as a public goodAligns with global-level monitoring: regional monitoring: regional monitoring:Aligns with global-level monitoring: regional monitoring:Proportion of countries that have behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: indicator options: indicator options: indicator options: indicator options:Aligns with global-level monitoring: indicator options: indicator options: indicator options: indicator options: indicator options: indicator options: indicator options: indicator options: indicator options: indicator option in the previous year indicator option in the previous option of indicator option in the previous option of indicator option in the previous option of indicator options: indicator options: indicator options: indicator options: indicator option in the previous option of indicator o			1 March 2021 version
Proportion of countries with legislation in place that is supportive of immunization as a public goodAligns with global-level monitoring: legislation is in place that is supportive of immunization as a public goodAligns with global-level monitoring: ndicator options: 	Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
SP Objective 2.2: Ensure that all people and communities value, actively support and seek out immunization servicesIndicator selected for global monitoringOptions for country monitoringProportion of countries that have implemented 	Proportion of countries with legislation in place that is supportive of immunization as a public good	Aligns with global-level monitoring: Proportion of countries with legislation in place that is supportive of immunization as a public good	 Aligns with global-level monitoring: Legislation is in place that is supportive of immunization as a public good Indicator options: Commitment tracking and accountability frameworks used at country and subnational levels
Indicator selected for global monitoringOptions for regional monitoringOptions for countries (Inclust that have implemented behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Indicator options:Aligns with global-level monitoring: Implemented behavioural or strategies) to address technical tools to community action, (e.g. strategies) to addressAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to addressAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccination in the previous year scategies) to addressAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccination in the previous year society and community representatives society and community representatives society and community representatives society and community representatives society and community representatives 	SP Objective 2.2: E	nsure that all people and communities value, actively sup	oport and seek out immunization services
Proportion of countries that have implemented behavioural or social strategies (i.e.Aligns with global-level monitoring: Implementation of countries that have implemented behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccinationAligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccination in the previous yeardemand generation strategies) to address under-vaccinationIndicator options: Indicator options:Indicator options: Indicator options:1.Government support for community action, provision of subgroups at particular risk)Indicator options: ImplementationIndicator options: Implementation2.Countries with dedicated on about vaccines and immunization, accurate information about vaccines and immunization, establishedImplementation ImplementationImplementation Implementation3.Countr	Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
strategies (i.e.Indicator options:Indicator options:demand generation1. Government support for community action (e.g. earmarked funds for community action, provision of technical tools tailored to communities, programmes for subgroups at particular risk)1. Health facility microplans that include engagement with civil 	Proportion of countries that have implemented behavioural or social	Aligns with global-level monitoring: Proportion of countries that have implemented behavioural or social strategies (i.e. demand generation strategies) to address under-vaccination	Aligns with global-level monitoring: Implementation of behavioural or social strategies (i.e. demand generation strategies) to address under-vaccination in the previous year
	strategies (i.e. demand generation strategies) to address under-vaccination under-vaccination	 Indicator options: Government support for community action (e.g. earmarked funds for community action, provision of technical tools tailored to communities, programmes for subgroups at particular risk) Countries with dedicated online resource for sharing accurate information about vaccines and immunization, including local schedule Countries with routine digital listening platforms established 	 Indicator options: Health facility microplans that include engagement with civil society and community representatives Health facilities with staff that received training (refresher or other) on interpersonal communications or similar % of population that values vaccination Placeholder for additional BeSD-based indicator Placeholder for programmatic indicator on overcoming genderrelated barriers to immunization

Table 3: Indicator summary for monitoring SP3 at all levels

SP3: COVERAGE & EQUITY

SP Objective 3.1: Extend immunization services to regularly reach "zero-dose" and under-immunized children and communities

U	U
F	7
2	2
2	2
2	5
1	5
N	S
2	2
ŀ	2
<	5
2	Ś
2	į.
5)
-	2

Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
None	 Indicator options: Number of countries with evidence-based and funded plan to address coverage of high-risk communities (zero-dose and under-immunized) % of countries with strategies to reach disadvantaged population % of countries that include activities to reach zero-dose children and missed communities in their national immunization strategies % of countries for which at least 80%* of districts have microplans that specifically target zero-dose communities (*target to be set at regional level) % of countries that have conducted an analytic assessment (coverage and equity analysis) of the number and distribution of zero-dose and underimmunized children and the determinants of missed communities Number of immunization sessions conducted, disaggregated by delivery type. 	 Indicator options: Evidence-based and funded pl communities exists Dropout rates between first do DTP-containing vaccines; and o MCV1 Number of immunization sessi disaggregated by delivery type % of districts in which at least are also held % of eligible children in the dis reached and vaccinated accord and under-immunized commu % of acute flaccid paralysis (AF "zero dose" or previously unva
SP Objective 3.2: Ac	dvance and sustain high and equitable immunization cov	verage nationally and in all distric
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
DTP3, MCV1, and MCV2 coverage in the 20% of districts with lowest coverage (mean across countries)	 Aligns with global-level monitoring: DTP3, MCV1, and MCV2 coverage in the 20% of districts with lowest coverage (mean across countries) Indicator options: % of countries with annualized national dropout rate of DTPcv1 and DTPcv3 greater than 5% points % of countries that have explicit strategies in their national immunization strategies to overcome gender-related barriers to vaccination 	Aligns with global-level monitoring DTP3, MCV1, and MCV2 covera coverage Indicator options: 1. Dropout rates between firs DTP-containing vaccine 2. Geographic equity of immu 3. Percentage points differen FIC associated with the mo determinants of vaccinatio education, ethnicity, religi

4. % of population living within 5 km to a fixed-site facility offering immunization services	

Table 4: Indicator summary for monitoring SP4 at all levels

SP4: LIFE COURSE & INTEGRATION

SP Objective 4.1: Strengthen immunization policies and service delivery throughout the life course, including for appropriate catch-up

vaccination and bc	oster doses	
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Breadth of protection (mean coverage for all WHO-	Aligns with global-level monitoring: Breadth of protection (mean coverage for all WHO-recommended vaccine antigens, by country)	 Aligns with global-level monitoring: Proportion of WHO recommended vaccines present within their national immunization schedule.
recommended vaccine antigens, by country)	Indicator options: 1. Proportion of countries with at least three vaccines targeting population beyond the first year of life in the national immunization schedule	 Indicator options: Number of vaccines targeting population beyond the first year of life in the national immunization schedule Availability of policies and/or laws for vaccination in childhood,
	 vaccine (DTPcv) booster dose, HPV in the national immunization schedule. Proportion of countries with seasonal influenza vaccination programmes for either all individuals or targeted high-risk sub-populations 	 earlier missed vaccinations 3. Coverage of MCV2, Penta booster dose, HPV 4. Coverage of seasonal influenza vaccination in countries that include it in the national immunization schedule for all individuals or targeted high-risk sub-populations 5. Percentage of LQAs achieving >80% "pass" rate during SIA campaigns, such as polio, measles, etc.
SP Objective 4.2: E different target ag	stablish integrated delivery points of contact between in e groups.	nmunization and other public health interventions for
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
None	Indicator options:	Indicator options:

None	Indicator selected for global monitoring	SP Objective 4.3: /	
Indicat 1. 2.	Option	Acceler	7. 6. 5. 4. 3. 2. 1.
or options: Proportion of countries with all WHO-recommended vaccines within their national immunization schedule Proportion of countries with newly recommended vaccines introduced post-2020.	s for regional monitoring	ate new vaccine introductions to protect more per	Proportion of countries with national policies or standard operating procedures in place to strengthen delivery of immunization services integrated with primary health care, across the life course Proportion of countries with national guides for service delivery integration to prevent missed opportunities, for all age groups Proportion of countries with >90% of PHC providing immunization services. Proportion of countries with >80% of tertiary health care providing immunization services Proportion of countries integrating immunization delivery in ≥90% of existing non-traditional delivery strategies (e.g. schools, pharmacies) Proportion of countries with a composite coverage index (CCI) (e.g. GVAP integration indicator G5.2) stratified by CCI < 60 (weak health systems), CCI 60–70 (less weak health systems), CCI > 70 (stronger health systems) Proportion of countries that link home-based records (HBR) with civil birth registration through immunization services
Indicato 1. 2. 3. 4.	Options	ople fro	9. 8. 7. 6. 9. 9. 9.
or options: Proportion of all WHO-recommended vaccines within their national immunization schedule within X years of WHO policy recommendation. Proportion of each life course stage reached with the last dose of WHO-recommended vaccines % of coverage of newly recommended vaccines introduced post- 2020. Rate of scale up of new vaccines	s for country monitoring	m more diseases in all countries	 National policies or standard operating procedures in place to strengthen delivery of immunization services integrated with primary health care, across the life course Existence of national guides for service delivery integration to avoid missed opportunity, for all age groups % of existing non-traditional delivery strategies (e.g. schools, pharmacies) integrating immunization delivery % of PHC centres integrating immunization services with other PHC services % of tertiary health care providing daily immunization service Linkage of home-based records (HBR) with civil birth registration through immunization services % of immunization clinics with an active mechanism to offer postpartum family planning in the first year after childbirth Number of districts, and % coverage, with routine well child checks in second year of life that include growth, nutrition and vaccination Number of districts with active investigation of the % of missed opportunities for vaccination (MOV) using the WHO MOV strategy in annual immunization plans

5. Number of vaccine introductions

Table 5: Indicator summary for monitoring SP5 at all levels

SP5: OUTBREAKS & EMERGENCIES

SP Objective 5.1: E	nsure preparation for, detection of, and rapid, high-quali	ty responses to vaccine-preventable disease outbreaks
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Proportion of polio, measles, meningococcal disease, vellow fever,	Aligns with global-level monitoring: Proportion of polio, measles, meningococcal disease, yellow fever, cholera, and Ebola outbreaks with timely detection and response (includes only outbreaks with an outbreak response vaccination	Aligns with global-level monitoring: Proportion of polio, measles, meningococcal disease, yellow fever, cholera, and Ebola outbreaks with timely detection and response
cholera, and Ebola	campaign)	Indicator options:
outbreaks with timely detection and	Indicator options:	 Annual number of laboratory-confirmed epidemic-prone vaccine- preventable disease outbreaks
response (includes only outbreaks with	 Annual number of laboratory-confirmed epidemic-prone vaccine-preventable disease outbreaks 	For epidemic-prone vaccine-preventable diseases, average coverage achieved by outbreak response vaccination campaigns
an outbreak	2. For epidemic-prone vaccine-preventable diseases, average	3. (National outbreak response plan developed - Y/N)
response vaccination campaign)	coverage achieved by outbreak response vaccination campaigns	 % of stockpile applications that demonstrate use of evidence (e.g. disease surveillance data, root cause analysis, and coverage data)
SP Objective 5.2: E disaster and huma	3. % of countries with national outbreak response plan stablish timely and appropriate immunization services du nitarian crisis	to support planning/targeting of outbreak response campaigns Iring emergencies, and in communities affected by conflict,
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
None	Indicator options:	Indicator options:

Implementing the Immunization Agenda 2030

March 2021 version
1. Annual % of children who have age-appropriate vaccination
coverage for DTP3, MCV (last dose), and PCV (last dose) in
settings with humanitarian crises or emergencies
Number of zero-dose and underimmunized children in fragile,
conflict and emergency settings
3. SMART or equivalent vaccine surveys carried out during a year of
crisis

Table 6: Indicator summary for monitoring SP6 at all levels

SP6: SUPPLY & SU	STAINABILITY	
SP Objective 6.1: B	suild and maintain healthy global markets across all vacci	ne antigens
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Level of health of the vaccine market, disaggregated by vaccine antigens and country typology	None	None
SP Objective 6.2: E	insure sufficient financial resources for immunization pro	grammes in all countries
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Proportion of countries whose domestic government and	Aligns with global-level monitoring: Proportion of countries whose domestic government and donor expenditure on primary health care increased or remained stable	Aligns with global-level monitoring: Increasing or stagnant trend of domestic government and donor expenditure on primary health care and on immunization, in constant prices per capita and live birth
donor expenditure on primary health	Indicator options: 1. Number of countries with stagnant or increased	Indicator options:
constant prices per	donor funding) – in constant prices per live birth – on immunization (breaking down vaccine and estimated	care and on immunization, in constant Ps per capita and live birth, increased?
capita (שטאב indicator)	operational cost) 2. Number of countries where immunization was de-	 Is the annual execution rate of immunization budget less than 90%?
	 prioritized, i.e. share of domestic public budget allocated to immunization (vaccines and operational cost) declined 	 Is the annual execution rate of PHC budget less than 90%? Is there an annual operational plan in place, stipulating the needs for the programme and the available resources to cover those
	 share of public budget – including donor money – allocated to immunization declined 	needs? 5. Has an analysis for the financing of immunization been conducted recently to identify bottlenecks to progress towards universal

	government resources	resources increased
יווב נסזר במתרמסת סו אפרנוונים סאבו מוווני, שץ מוומפרו	Number of countries with stagnant or increased share of immunization schedule vaccine expenditure funded by domestic	by domestic government
The next reduction of the province time by participa	resources increased	immunization schedule vaccine
Aligns with global-level monitoring: Percentage of total expenditure on vaccines in the national immunization schedule financed with domestic government funds	Aligns with global-level monitoring: Proportion of countries whose share of national immunization schedule vaccine expenditure funded by domestic government	Proportion of countries whose share of national
Options for country monitoring	Options for regional monitoring	Indicator selected for global monitoring
ces in aid-dependent countries, and when transitioning away for all vaccines	ncrease immunization expenditure from domestic resour overnment funding to achieve and sustain high coverage	SP Objective 6.3: In from aid, secure g
access to immunization, and explore possibilities for efficiency gain through integrated services?	3. Number of countries that track immunization expenditure using health accounts	

Table 7: Indicator summary for monitoring SP7 at all levels

SP Objective 7.1: Establish and strengthen capacity at all levels to identify ${\sf p}$	SP7: RESEARCH & INNOVATION
priorities for innovation, and to create and manage innovation	

Indicator selected for	Options for regional monitoring	Options for country monitoring
global monitoring		

		1 March 2021 version
Proportion of countries with an immunization	Aligns with global-level monitoring: Proportion of countries with an immunization research agenda	 Aligns with global-level monitoring: Immunization research agenda exists
research agenud	 Availability of common framework/process/format for developing country immunization research agendas Proportion of countries that developed immunization research agenda, relative to baseline Proportion of countries that have secured funding to develop and implement national immunization agendas Proportion of countries engaged in vaccine product and delivery, R&D, implementation research and/or manufacturing 	 Improved institutional and technical capacity to carry out vaccine clinical trials Number of districts that have identified their priorities for new products/innovations
SP Objective 7.2: Dev	elop new vaccines and technologies, and improve exi	sting products and services for immunization programmes
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring
Progress towards global research and development	 Indicator options: Number of new vaccine-related products/innovations approved/implemented or in pilot studies Number of pivotal clinical trials performed Number new vaccines prequalified Number of countries with RITAG approving their research immunization agenda priorities Number of vaccines in commercial manufacture The establishment of an evaluation framework to assess uptake and implementation effectiveness of new and existing products and services 	 Indicator options: Number of new vaccine-related products/innovations approved by national regulatory authority (NRA) Number of new vaccines recommended for use Number of pivotal clinical trials performed Number of vaccines in commercial manufacture
SP Objective 7.3: Eval evidence	uate promising innovations and scale up innovations	is appropriate based on the basis of the best available
Indicator selected for global monitoring	Options for regional monitoring	Options for country monitoring

		11 March 2021 version
None	Indicator options:	Indicator options:
	 Proportion of countries that have established 	 At least one implemented recommendation from a NITAG or
	processes/frameworks for identifying vaccine products	other relevant independent technical advisory group
	and innovations to develop, introduce or use	implemented
	2. Proportion of countries with at least one implemented	2. List of evidence-based solutions to strengthen immunization
	recommendation from a NITAG or other relevant	service delivery
	independent technical advisory group	3. Progress implementing/scaling up evidence-based solutions to
		strengthen immunization service delivery

Metadata for Strategic Priority Objective Indicators

Global Strategic Priority Objective Indicators

Each Global SP Object	ive Indicator will be defined with the following characteristics:
Indicator ID, Name	SP 1.1- Proportion of countries with evidence of adopted mechanism for monitoring, evaluation and action at national and sub-national levels
Definition	Mechanism that drives monitoring, evaluation and action (ME&A) cycles at national and sub-national (equivalent to district) levels is defined according to the following criteria.
	 <u>Criteria include:</u> Presence of a functional NITAG or equivalent technical advisory group Presence of a function and action cycles are in place Monitoring, evaluation and action cycles are in place Feedback loop is in place to communicate assessments of progress, and recommendation actions from sub-national to national and from national to sub-national level
Calculation and operational considerations	Data-driven decision-making is an indication of strong leadership and management. This indicator should help in uniting the key stakeholders to drive actions in an accountable manner. Information from ME&A exercises should be reported to higher levels, and recommendations fed back to lower levels. Actions planned/taken should be reported to higher levels and from higher to lower levels. The indicator will be self-reported according to the criteria above. Meeting each criterion gives 1 point, with a maximum score of 3 points. Data for this indicator is not currently available at the global level, except for NITAG presence and functionality which is collected through the JRF. JRF questions:
	Criteria 1 : Presence of a functional NITAG or equivalent technical advisory group (already collected through JRF). "Functional" defined as meeting the following: 1. <i>Technical advisory group has a formal written terms of reference;</i> 2. <i>There is a legislative</i> <i>or administrative basis for the advisory group;</i> 3. <i>The following areas of expertise are represented in the group as core membership:</i> <i>pediatrics; public health; infectious diseases; epidemiology; immunology;</i> 4. <i>members of the technical advisory group are required to disclose</i> <i>conflict of interest;</i> 5. <i>Committee meets at least once a year on a regular basis; and</i> 6. <i>agenda and background documents distributed to</i> <i>technical advisory group members at least</i> 1 <i>week ahead of meetings</i> .
	Criteria 2 : Monitoring, evaluation and action cycles were in place in [insert previous year].
	 In [insert previous year], did your country have monitoring, evaluation, and action (ME&A) cycles in place for data-driven decision making? If yes, please share an operational document describing the ME&A process in your country in the previous year:

Data source	Method of measurement		
rce Proposed to be collected through JRF	of Data for this indicator will be collected through self-report (Yes/No) and a request to provide supporting documentation. ment Supporting documentation will include: Operational document describing the ME&A process at all levels - Evidence of implemented actions to strengthen immunization programme performance at all levels	 Criteria 3: Feedback loop is in place to communicate assessments of progress, and recommendation actions from sub-national to nati and from national to sub-national level 3.1 In [insert previous year], was the evaluation of immunization indicator results communicated from national to subnational level 3.2 In [insert previous year], was the evaluation of immunization indicator results communicated from subnational levels to the national level? 	 3 If yes, please provide a description summary of implemented actions to strengthen immunization programme performance that occurred through the implementation of monitoring, evaluation, and action cycles. 4 If yes, select stakeholders that provided guidance for monitoring, evaluation, and action cycles (ME&A) in [insert previous year] 4.1 NITAG 4.2 Government 4.3 CSOs 4.4 Other (specify)
		national Il levels? ne national	ar]

In response to WHA resolution, WHA 69.19, an online National Health Workforce Accounts (NHWA) data platform was developed to facilitate reporting. Complementing national reporting through the NHWA data platform, additional sources such as the National Census, Labour Force Surveys and key administrative national and regional sources are also employed. In general, the denominator data for	Method of measurement
 Density of physicians, nurses and midwives per 10,000 population: Numerator: Number of physicians, nurses and midwives, defined in headcounts Denominator: Total population (per 10,000) Physicians comprise the following occupations: generalists, specialist medical practitioners and medical doctors. The International Standar Classification of Occupations (ISCO) unit group codes included in this category are 221, 2211, 2212. Nursing and midwifery personnel comprise the following occupations: nursing professionals, nursing associate professionals, midwifery professionals and related occupations. The ISCO unit group codes included in this category are 2221, 2222, 3221 and 3222 of ISCO-08. 	Calculation and operational considerations
Number of physicians, nurses and midwives per 10,000 population	Definition
e SP 1.2- Density of physicians, nurses and midwives per 10,000 population	Indicator ID, Nan

(
ŀ	1
1	2
ŝ	2
ć	3
-	2
C	2
ř	5
1	-
č	D
č	2
ġ	2.
-	2

Indicator ID, Name	SP 1.3- Proportion of countries with 90% on-time reporting from 90% of districts for suspected cases of all priority vaccine-preventable diseases included in nationwide surveillance (including reporting of zero cases)*
Definition	Countries with on time reporting from districts of suspected cases of all priority VPDs included in nationwide surveillance (including reporting of zero cases) *suspected cases for all priority VPDs under nationwide surveillance. Priority VPDs include at a minimum, polio, measles, rubella, neonatal tetanus, yellow fever (for endemic countries), meningococcal (for meningitis belt countries) and other diseases under nationwide surveillance surveillance that a country/region determines is a priority.
Calculation and operational considerations	 Denominator - total countries reporting data. Numerator consists of countries where at least 90% of districts have achieved at least 90% on time reporting for all priority vaccine-preventable diseases included in nationwide surveillance (including reporting of zero cases) Report the number of cases for all suspected cases of the predefined VPDs to the provincial or national level. The number of cases can be zero Submit those reports in a timely manner as defined by the country's internal deadlines for reporting. To achieve 90% reporting per year: If a country expects weekly reporting for a given disease then the district needs to report ≥47 times by the deadline set by the country. If they have monthly reporting for a disease, then reporting should be ≥11 times in a calendar year. De not report the number of suspected cases for some, but not all, of the predefined VPDs Report the number of time. Report less than 90% of the time. Countries that are small can use their primary administrative unit or health facilities as their unit of measure
Method of measurement	To calculate this indicator, the following questions are proposed for the JRF. 1. What are the priority VPDs in your country (priority VPDs are those that a country defines as those that they want to achieve high quality surveillance to drive their vaccination programme. These could be diseases targeted for elimination/eradication or those

Indicator ID, Name	Data source	
SP 1.4- Average proportic countries)	Proposed to be collected through	that a country is lookin, that are included in nat 2. Number of districts:
on of time with full avail	h JRF	ig at for vaccine introduction tionwide surveillance (drop d Frequency of reporting (daily, weekly, monthly)
ability at service deliv		or because disease burden own/select all of all VPDs) Total number of districts that reported at any time during the (year)
ery level of DTPcv and		is high or because they are Number of districts that report at least 90% on the time during the (year)
MCV (across		highly outbreak prone)

Indicator ID, Name	SP 1.4- Average proportion of time with full availability at service delivery level of DTPcv and MCV (across countries)
Definition	Average over all reporting countries of the percentage of health facilities that reported no stock-outs for the full year for DTPcv and MCV
	Countries that report having a system in place to measure vaccine availability at the service delivery level will consolidate facility-level data and calculate the yearly average % of facilities with no stock-outs of DTPcv and MCV. The following questions are proposed to be added to the JRF:
Calculation and operational	 Does your country have a system in place to measure vaccine availability at the service delivery level (Y/N)? What was the availability of measles-containing vaccine in [insert previous year] – defined as the percentage of health facilities that reported no stock outs for the full year?
considerations	 What was the availability of DTP containing vaccine in [insert previous year] – defined as the percentage of health facilities that reported no stock-outs for the full year?
	Calculation: Average percentage of DTPcv and MCV across all countries that have a system in place to collect this information.
	Operational considerations:

Data source	Method of measurement	
Proposed to be collected through IRF	Countries to monitor and collect facility-level data on DTP containing vaccine and MCV full stock availability over a year using existing information system (e.g. LMIS, HMIS, DHIS2, wVSSM or other available information management platforms). Countries that lack this data (e.g. no reporting of the indicator, no system to keep track of stock at service delivery level) indicate N for the first question.	In the context of this indicator, this means for each month, every health facility was able to meet all vaccine needs and reported no stock-outs for the full year.

Indicator ID, Name	SP 1.6- Proportion of countries with at least 1 documented (with reporting form and/or linelisted) individual serious AEFI* case safety report per million total population
Definition	Countries with documented (with reporting form and/ or line-listed) individual serious AEFI case safety reports per million total population
Calculation and operational considerations	Annual number of individual AEFI case safety reports available in the WHO global database for safety monitoring Threshold: All countries with at least 1 AEFI individual case safety report/1, 000 000 population Total population: UN Population Division's World Population Prospects for e.g. <u>https://population.un.org/wpp/Publications/Files/WPP2019_Highlights.pdf</u> * WHO global database – VigiBase: <u>https://www.who-umc.org/vigibase/vigibase/</u>
Method of measurement	Individual serious AEFI reporting rate in million total population per year= Number of individually documented serious AEFI cases reported from country/sub-national area per year * 1,000,000
	Number of individually documented serious Individual serious AEFI AEFI cases reported from a country/ sub- reporting rate in million _ national area per year X 1,000,000
	total population per year Total population in the same country/ sub- national area per year
Data source	Primary data source: WHO global database VigiBase: https://www.who-umc.org/vigibase/vigibase/ . VigiBase data will be used for countries which have capacity to upload data to VigiBase. JRF will be used temporarily for countries that are transitioning to case based reporting into VigiBase.

information systems, and others.
A "vaccination law or other legislation" could include written laws (acts, statutes) or regula authority and enforceable by law. Legislation may be specialized for immunization or be co legislation and, among other things, must consider securing financing for all components of including the purchase and timely availability of vaccines in accordance with national plann
To be included in JRF. Note: PAHO is piloting this question on the 2020 JRF. Based on feed phrasing of the question may be modified accordingly. Ouestion will also contain an explanatory note (sample text below):
The existence (or not) of a legislative basis underlying the commitment to provide governi This will be measured through self-report (Yes/No) and a request to provide supporting do
- Please provide the year it was passed - Please upload supporting document or provide the website link in the comment .
Proposed JRF Questions: - Do you have a vaccination law or other legislation that is supportive of immuniz aspects of the immunization programme at all levels?
This data is currently not systematically collected at the global level so will need to be ac through self-report (Yes/No) by countries and request to upload a copy or link to the relevant of the relevant o
Proportion of countries with legislation in place that is supportive of immunization as a p
e 2.1 Proportion of countries with legislation in place that is supportive of

Indicator ID, Name	4.1 Breadth of protection: mean coverage for all vaccine antigens recommended by WHO
Definition	Breadth of protection defined as mean coverage for all vaccine antigens recommended by WHO
Calculation and operational considerations	The average of the coverage achieved at global, regional, country level for the following antigens: - Diphteria, Tetanus, Pertussis, Hepatitis B, Hib, Measles, Measles 2nd dose, Pneumo, Polio, IPV, Rubella, Rota, HPV
considerations	Note that this definition may be further refined.

Indicator ID, Name	3.2: DTP3, MCV1, and MCV2 coverage in the 20% of districts with lowest coverage (by country)
Definition	Average over all reporting countries of coverage for DTP3, MCV1, and MCV2 in each country's 20% lowest performing districts
Calculation and operational considerations	Average coverage in lowest performing quintile for each country that reports district level coverage. Group of worst performing districts may change from year to year (i.e. no attempt to follow performance in a fixed group of districts)
Method of measurement	Analysis of district level coverage reported by member states.
Data source	Annual member state reporting of district level coverage data through the Joint Reporting Form process

Data source	measurement	Method of									
Proposed to be collected through IRF		Indicator to be reported by countries through the JRF and will replace former demand questions in the JRF	Other, please specify:	 Interventions at the policy level (e.g. incentives) 	 Interventions to manage misinformation based on social or digital listening data 	 Interventions to communicate or educate the public 	Community engagement	 Interventions to build capacity among healthcare workers 	 Interventions to improve service quality 	 Interventions to improve access to vaccination 	

31 March 2021 version

Data source JRF, WUENIC	Method of measurement	Analysis of WUENIC
	Data source	JRF, WUENIC

Data source IC(Inf glc	Method of measurement Wi	Calculation and Tir operational dis considerations for sui Ca cho	Definition Pro *0 ***	Indicator ID, Name 5. de
G, MRI, GPEI, WHO, national immunization and disease surveillance programs. formation will be systematically collected from national immunization and disease surveillance programs to provide data for regional and obal level data.	formation from the International Coordinating Group on vaccine provision, Measles Rubella Initiative, Global Polio Eradication Initiative, nd WHO World Health Emergencies group, supplemented by national immunization and disease surveillance programs via the HO/UNICEF Joint Reporting Form.	me from onset of outbreak to implementation of vaccination campaign should be determined for each polio, measles, meningococcal sease, yellow fever, cholera, and Ebola outbreak for which there is an outbreak response vaccination campaign. laximum time for the period from onset of outbreak to implementation of vaccination campaign to be considered timely will be defined r each vaccine. Criteria for determining onset of outbreak and timeliness of outbreak detection and response to be consistent with WHO rrveillance standards and disease eradication, elimination, or control strategies. nolera, and Ebola outbreaks with timely detection and outbreak response vaccination campaigns by collective total number of known polio, measles, meningococcal disease, yellow fever, cholera, and Ebola outbreaks with outbreak response vaccination campaigns.	oportion of polio, measles, meningococcal disease, yellow fever, cholera, and Ebola outbreaks* with timely** detection and response Dnly applies to outbreaks for which there is an outbreak response vaccination campaign. *Acceptable time from onset of outbreak to campaign implementation to be defined for each disease	.1 Proportion of polio, measles, meningococcal disease, yellow fever, cholera and Ebola outbreaks with timely etection and response (includes only outbreaks with an outbreak response vaccination campaign)

Data source		Method of measurement	Calculation and operational considerations	Definition	Indicator ID, Name
 UNICEF WHO: via the MI4A initiative Gavi Secretariat BMGF 	 More specifically the following attribute will be measured: supply meeting demand individual supplier risk buffer capacity long term competition Semi-quantitative assessment of the individual market health will be conducted by partners [WHO, UNICEF, Gavi, BMGF]. Based on assessments of individual antigen the above attributes and a holistic overview of each market's programmatic context, markets will be assessed based on the following categories: Insufficient and requires further intervention: severe supply security challenges and risks exist, no improvement is expected without Gavi Alliance intervention Insufficient with conditions for improvement: severe supply security challenges and risks exist, improvements possible but requiring further monitoring and lead time to materialize. Sufficient with risks: limited supply security challenges with unacceptable risks of backsliding, interventions are required to mitigate risks. Sufficient and sustainable: limited supply security challenges with acceptable risks, monitoring required to ensure risks to not increase. 	A number of criteria have been defined to determine the level of health of a market. The number of criteria 'met' directly determine the health of the market for each vaccine. Each organization provides their inputs, and an adjustment exercise is undertaken in case of misalignment.	 Global supply exceeds global demand by more than x and by no more than y – x and y as defined in the MI4A vaccine-specific market studies: https://www.who.int/immunization/programmes_systems/procurement/mi4a/platform/module2/en/, by antigen The 2 largest suppliers do not exceed 2/3 of the market, by antigen Total number of manufacturers exceeds 3 including the ones with product in clinical development (at least phase IIa), by antigen 	Level of health of the market, disaggregated by antigen and country typology (Gavi, non-Gavi MICs, HICs)	6.1 Level of health of the vaccine market, disaggregated by antigen and country typology

Indicator ID, Name	6.2 Proportion of countries whose domestic government and donor expenditure on primary health care increased or remained stable
Definition	Proportion of countries whose current government expenditure level (from domestic and donor funding) on primary health care (PHC) per capita in US\$ (constant prices) increased or remained stable since pre-2020 level.
Calculation and operational considerations	Per capita constant US\$ PHC expenditure data is calculated using PHC expenditure, divided by population and measured in constant US\$ price (converted in 2020 NCU price and then converted into 2020 US\$). The trend calculation will be defined subsequently, leveraging methodologies used for WHO GHED and GHER (Global Health Expenditure Report).
Method of measurement	To monitor growth, proposed methodology is to take the annual growth rates, using constant prices per capita values. See https://apps.who.int/nha/database/DocumentationCentre/GetFile/57752201/en
Data source	WHO GHED (health accounts data) https://apps.who.int/nha/database/Select/Indicators/en
Indicator ID, Name	6.3 Proportion of countries whose share of national immunization schedule vaccine expenditure funded by domestic government resources increased
Definition	Number of countries whose share of current expenditure on vaccines (in the national immunization schedule) that is financed with domestic government funds increased since pre-2020 level.
Calculation and operational considerations	The share is calculated from domestic government spending on vaccine as a % of total expenditure on routine immunization vaccines. The trend calculation will be defined subsequently, leveraging methodologies used for WHO GHED and GHER (Global Health Expenditure Report).
	To monitor growth, proposed methodology is to compare shares of Yt with Yt-1. The total value of vaccines used for the provision of immunization. All the materials and services are to be fully consumed during the
Method of	production activity period.

Data source

JRF

measurement

Domestic public resources spent on all vaccines used in conformity with the national immunization programme, including routine doses of vaccines, and following each country's vaccination schedule. Includes the international market price, as well as transport and handling expenditures. Vaccines used in Child Health Days are included in routine vaccine expenditures, but expenditures related to doses of

vaccine given through supplemental immunization activities (SIAs) are excluded

Data source		Method of measurement	Calculation and operational considerations	Definition	Indicator ID, Name
 Primary data source Proposed to be collected through JRF Countries should review these sources for the document of their research agenda National Immunization Technical Advisory Groups National Immunization strategies 	 From this self reported and supporting documentation, a desk review will be conducted to: Establish the baseline of how many national immunization research agendas currently exist, what form are they in (how variable), where are they situated, how are they monitored (desk review, surveys through ROs?) Assess whether a framework or guidance for developing national immunization strategies is desirable, useful – and develop one if needed Assess progress towards national immunization strategy as part of NIS reporting 	 Proposed JRF Questions: Do you have a national agenda for research on immunization? IF YES, Please provide the supporting document (e.g. national immunization strategy, national health plan) which can provide an evidence of national agenda for research on immunization 	 The national agenda should identify priority research areas that increase the likelihood that the country will achieve its IA2030 targets. Research is defined as activities that span 5 areas: measuring the magnitude and distribution of a health problem; understanding the diverse causes or the determinants of the problem, whether they are due to biological, behavioral, social or environmental factors; identifying and developing solutions or interventions that will help to prevent or mitigate the problem; implementing or delivering solutions through policies and programmes; and evaluating the impact of these solutions on the magnitude, level and distribution of the problem. Research agendas will vary depending on national context and priorities. Some countries may focus on disease burden and implementation/operational research to inform new product implementation, whereas others may have wider-ranging agendas. 	Number of countries with national agenda for research on immunization defined and based on clearly identified and prioritized evidence needs and specified in national immunization strategy or other national strategy document	SP 7.1- Proportion of countries with national agenda for research on immunization

- National regulatory bodies RITAGs
- Clinical trial registeries

ndicator ID, Name	SP 7.2- Progress towards global research and development targets
efinition	Progress towards global research and development targets will be monitored based on "short list" of global targets which will be de by WHO and endorsed by SAGE
alculation and perational onsiderations	WHO HQ and regional offices together with key partners/stakeholders will mutually define targets and monitor and evaluate progre global and regional level. The process will require a prioritization framework to align on priorities, targets, and a mechanism for mon and evaluation. The suggested short list should be presented no later than SAGE Oct 2022.
Aethod of neasurement	 Global: Measurement will require Periodic review of literature to track topical trends and progress Baseline will be established through the same process using periodic review of literature
ata source	 Primary data source: Periodic review of literature, including grey literature Review of literature should include the following sources: WHO Product Development and Vaccine Advisory Committee and associated working groups (https://www.who.int/immunization/research/committees/pdvac/en/) Vaccine Innovation Prioritization Strategy (https://www.gavi.org/our-alliance/market-shaping/vaccine-innovation-prioritization strategy) Infuse (https://www.gavi.org/investing-gavi/infuse)

Further Development of Impact Goal and Strategic Priority Objective Indicators

and need further development. In addition, the Learning Agenda indicates that the M&E Framework should be reviewed and updated at least necessary revisions to update the indicators as immunization programme capacities are continuously strengthened. once every three years in response to changing programmatic needs and improvements in M&E methods, to ensure it delivers the data required to improve immunization programme performance. This periodic review should assess if the collected data are fit for purpose and make The IA2030 M&E Framework includes several impact goal (IG) and strategic priority (SP) objective indicators that were not previously collected

and projections (e.g. the anticipated long-term impact of the COVID-19 pandemic) to produce baseline estimates and to set realistic targets. The following impact goal indicators need further development, including additional data collection and/or in-depth analyses of historical trends

IG 1.1 Number of deaths from vaccine-preventable diseases averted.

- Over the next few years, additional pathogens (p.22) will be added to the scope of IG 1.1. These pathogens were categorized based on strategic priorities, data availability and feasibility.
- Estimates for IG 1.1. will be updated and reported on an annual basis with the WUENIC release
- The models and the methodology will be further refined, and estimates will be validated with additional data
- The anticipated impact of the COVID-19 pandemic on coverage rate will be incorporated as more data become available

IG 1.2 Number and proportion of countries that have achieved global or regional VPD control, elimination and eradication targets

- Additional VPDs may be included for analysis as regional or global bodies endorse new VPDs for control, elimination and eradication.
- Updates to both the VPD indicators and the VPD targets will be made as disease programmes' monitoring strategies evolve. Possible updates include update from regional endorsement to global endorsement, target value, target type and target date timeframe.

IG 1.3 Number of large outbreaks of vaccine-preventable diseases.

- vaccine-preventable disease eradication, elimination and control goals. Criteria for large outbreaks of polio, measles, cholera, Ebola, meningococcus and yellow fever will be finalized in alignment with global
- Historical and baseline disease surveillance data will be assessed against the finalized criteria. Assessments of the number of outbreaks qualifying as large outbreaks will be updated annually for each disease within scope of IG 1.3.
- Over the next few years, additional pathogens may be added to the scope of IG 1.3 in alignment with global vaccine-preventable disease eradication, elimination and control goals, particularly as additional outbreak-prone diseases become vaccine-preventable

IG 3.2 UHC Index of Service Coverage (UHC SCI)

the IG3.2 indicator will also evolve to ensure immunization programme's contribution to PHC/UHC is best measured The metrics used to measure UHC and PHC will likely evolve over the decade with advances in data and understanding. The target for

communicate and use the results to drive progress to achieve the IA2030 impact goals. In addition, all of the IG indicators need to be assessed as they are implemented to properly collect, measure, analyse, interpret,

The following SP objective indicators need further development:

SP Objective 1.1: Reinforce and sustain strong leadership, management and coordination of immunization programmes at all levels

Well-functioning monitoring, evaluation and action cycles to continuously improve immunization programme quality are a key proxy feedback mechanisms and capacity building for implementation of ME&A cycles at all levels. measure of leadership, management and coordination. Monitoring of this indicator might require development of new reporting and

SP Objective 2.2: Ensure that all people and communities value, actively support and seek out immunization services

This indicator is intended to drive national immunization programmes to allocate dedicated resources to assess and address barriers to vaccination. However, it was not feasible to develop a single global demand creation indicator that is applicable to all countries, and the availability of data to measure this indicator might be a challenge in some countries.

SP Objective 3.1: Ensure preparation for, detection of, and rapid, high-quality responses to vaccine-preventable disease outbreaks

- Criteria for timely outbreak detection and response will be finalized for each disease in scope of SP5.1 in alignment with global vaccinepreventable disease eradication, elimination and control goals.
- diagnostic technology and methodologies for disease surveillance and outbreak response. each disease within scope of SP 5.1. Criteria for timely outbreak detection and response may be revised periodically in light of new Historical and baseline disease surveillance data will be assessed against the finalized criteria. Assessments of the proportion of outbreaks with outbreak response vaccination campaigns that had timely outbreak detection and response will be updated annually for
- Over the next few years, additional pathogens may be added to the scope of SP5.1 in alignment with global vaccine-preventable disease eradication, elimination and control goals, particularly as additional outbreak-prone diseases become vaccine-preventable.

SP Objective 7.2: Develop new vaccines and associated technologies, and improve existing products and services for immunization programmes

- immunization programmes, is defined through global and regional mechanisms. to set R&D agendas for development of new vaccines and technologies, and improvements of existing products and services for This indicator from GVAP (i.e. a short list of global priority R&D targets) is intended to be an interim indicator until a strategic approach
- in the needs of communities countries in the region; regional R&D agendas should feed into the global R&D agenda, ensuring that the global R&D agenda is anchored immunization products, services and practices." Regional R&D agendas should be focused on achieving the greatest impact among innovation priorities according to community needs, particularly for the under-served, and ensure these priorities inform innovations in Research & Innovation strategy which focuses on "needs-based innovation and aims to strengthen mechanisms to identify research and The strategic approach to set R&D agendas should consider national agendas for immunization research (SP7.1), and reflect the IA2030