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Global Fund Data Quality Improvement Framework

25 November 2024

This session is being recorded.

Agenda

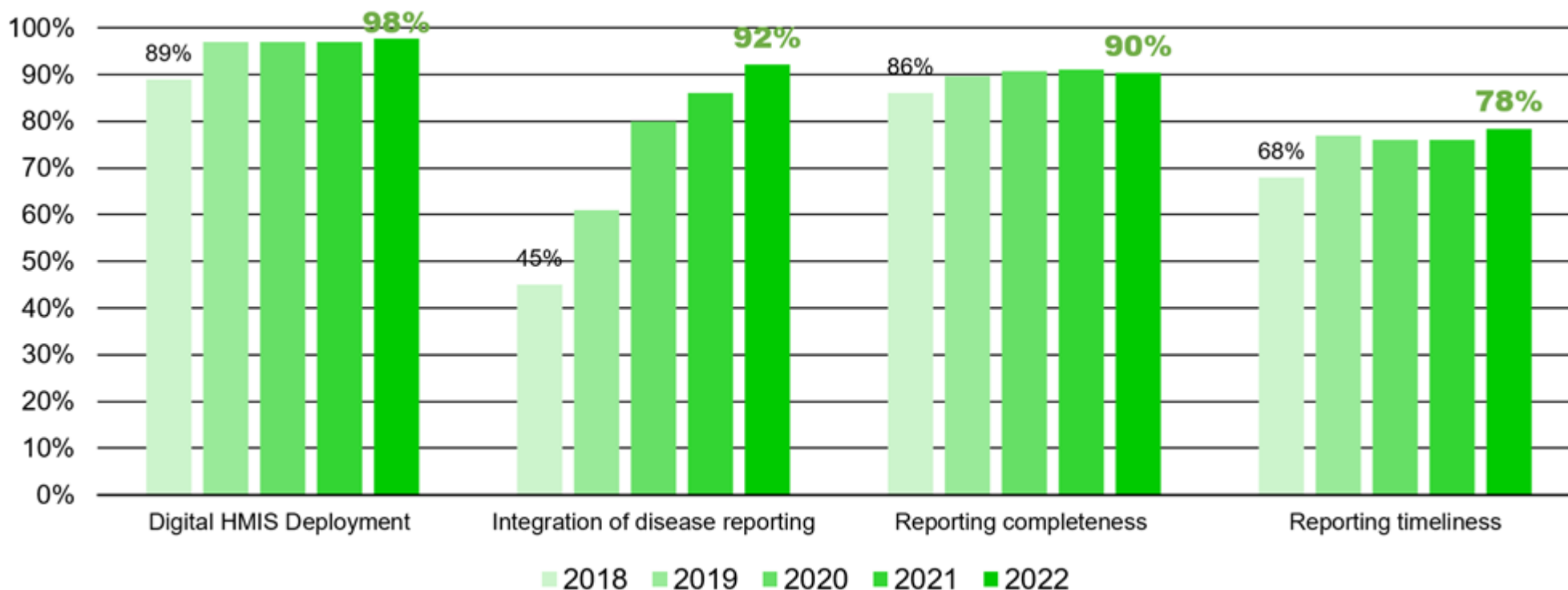| Topics	
1	**The new Data Quality Improvement Framework**
2	**Q&A**

1 The new Data Quality Improvement Framework

Access the file here

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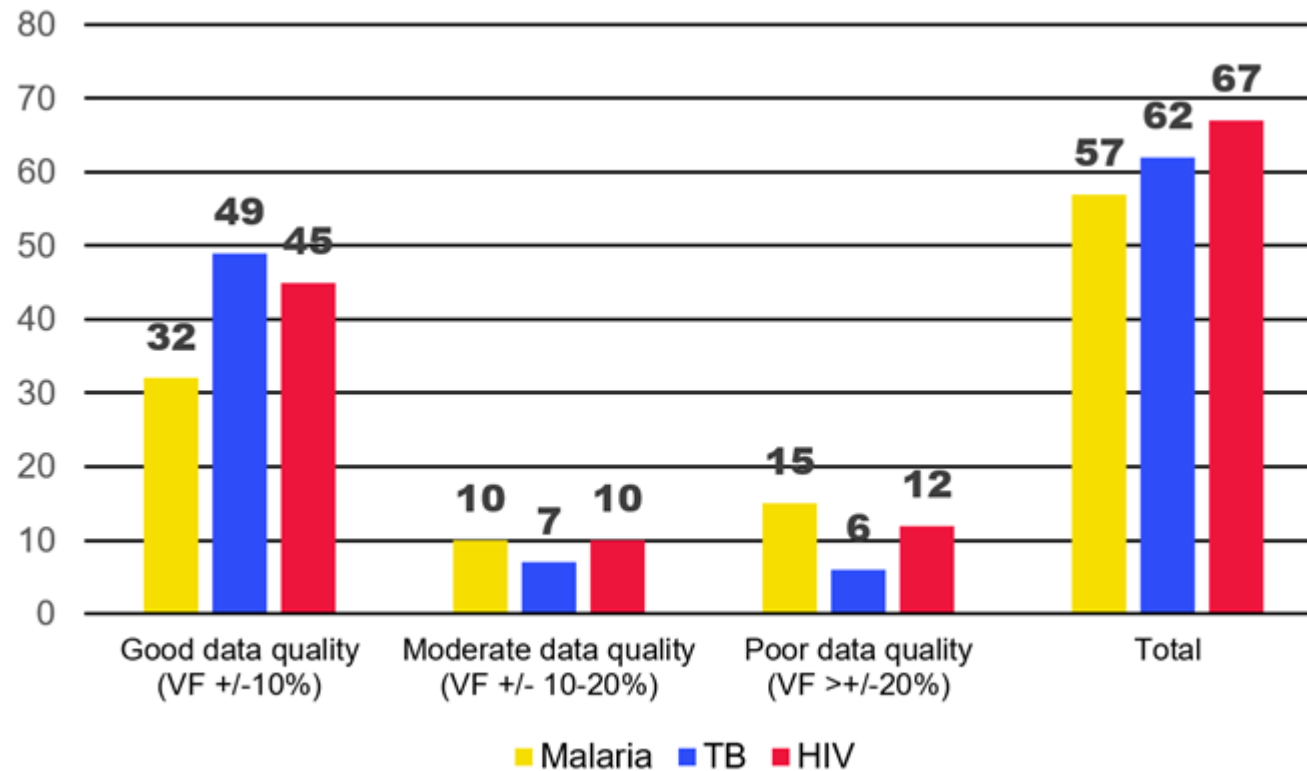# Countries have made significant progress in data quality

By 2022, reporting completeness 90%; timeliness 78%; disease system integration 92%;

Graph 1: HMIS integration, data completeness and timeliness results 2018-2022 for HI/core countries (51)

Countries have made significant progress in data quality

83% of audited data points between 2017-2022 moderate/good data quality.

THE GLOBAL FUND   Graph 5: Distribution of verification factor (VF) by disease component 2018-2023   5

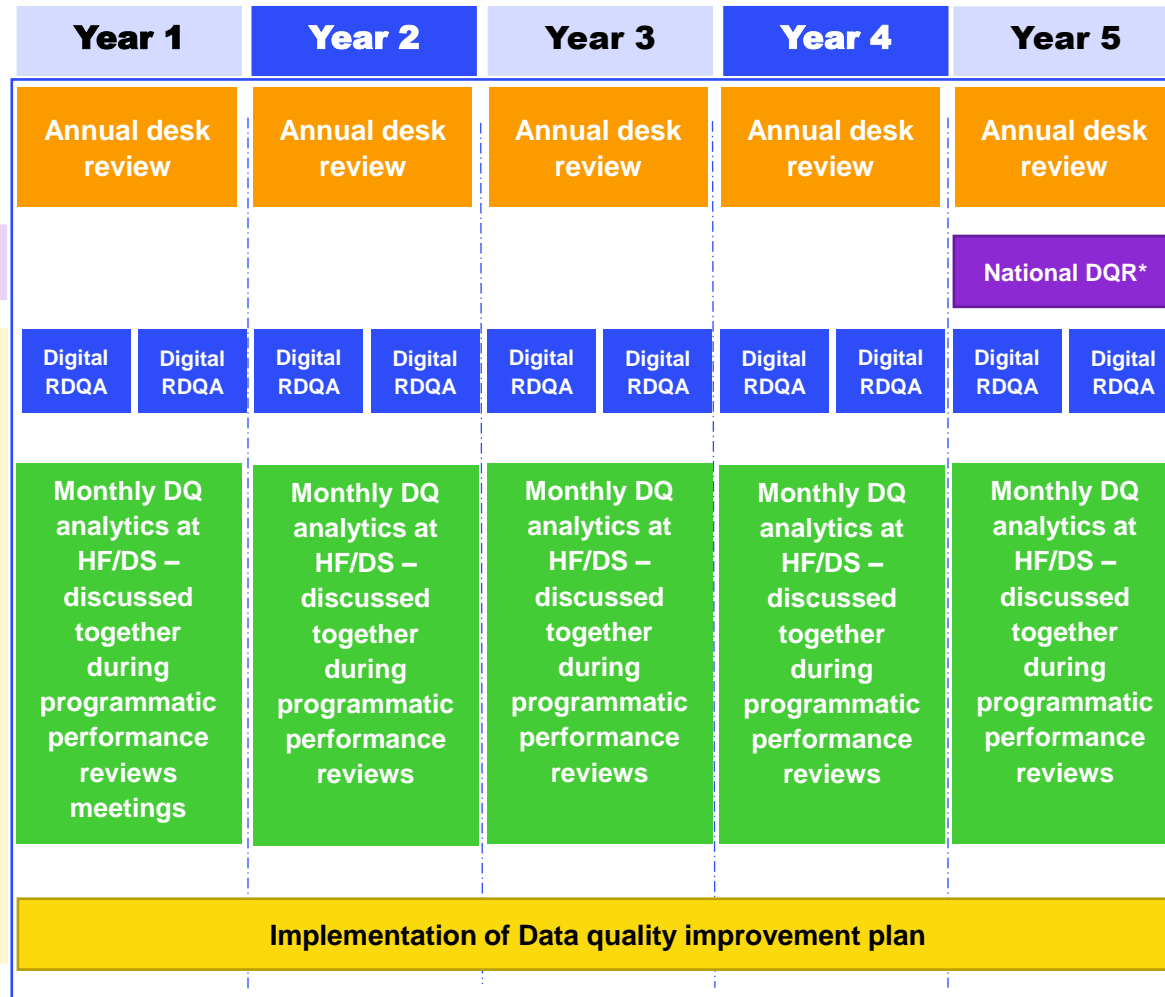# A revised approach to data quality investments

Data quality remains a challenge due to:

- Lack of a systemic/integrated approach.

- Data quality investments deprioritized.

- The long time focus of data quality investments were costly data audits and quality assurance. There is a need to focus more on routine data quality improvement, root-cause resolution and funding of respective interventions.

Opportunities:

- The digital era provides opportunities and innovations for measurement, analytics, and monitoring.

- There is an interest among partners to further harmonize data quality approaches.

- The global push for service integration enables us to further integrate data systems and refine data quality interventions.

Data Quality Assurance calendar, tools, and metrics

	Year 1	Year 2	Year 3	Year 4	Year 5
	Annual desk review	Annual desk review	Annual desk review	Annual desk review	Annual desk review

Data quality metrics:

1) Completeness, 2) int. consistence, 3) ext. comparison with other data sources 4) ext. consistency

National DQR*

National DQR* (Year 5)

Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA	Digital RDQA

Paper-based system: verification against source documents

- Accuracy: External VF (DQR)
- Accuracy: Internal VF (Digital RDQA)
- M&E system assessment
- Follow-up monitoring on system issue resolution

Development of Data Quality Improvement Plan (DQIP) as an annex to HMIS strategy for next strategic implementation cycle

Monthly DQ analytics at HF/DS – discussed together during programmatic performance reviews meetings

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Digital system: automated data quality analytics based on DHIS2 (or other digital system) dashboards at district and health facility levels

- Data Set completeness
- Data set timeliness
- Data Element completeness
- Consistency over time
- Consistency of related data
- Outlier analysis
- External consistency
- Consistency of population data
- Digital Data Quality Index: TBD

Implementation of Data quality improvement plan

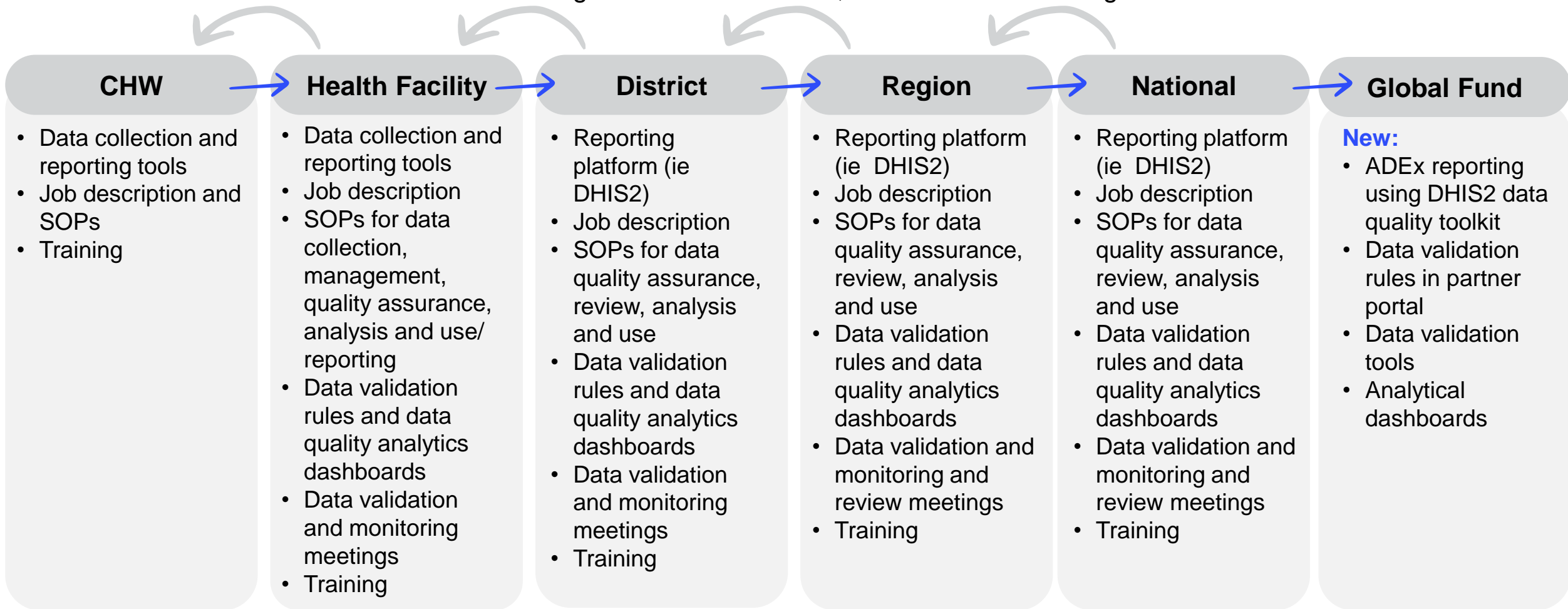**HMIS strategy evaluation / HTM program reviews**

5-year Country Strategic Planning cycle – HMIS, NHS (PNDS), HTM strategies

*If a national DQR cannot be implemented, a targeted (nationally not representative) DQR can be implemented either by LFAs or other service providers.

Potential interventions to strengthen data quality

Simplified data flow from data production level to Global Fund with data quality interventions within a National Health Information System that can/should be supported through Global Fund grants

Supervisions/feedback loop: move to use of digital tools to facilitate planning, immediate access and use of results, monitoring of recommendations, DQ metrics monitoring

CHW	Health Facility	District	Region	National	Global Fund
• Data collection and reporting tools • Job description and SOPs • Training	• Data collection and reporting tools • Job description • SOPs for data collection, management, quality assurance, analysis and use/ reporting • Data validation rules and data quality analytics dashboards • Data validation and monitoring meetings • Training	• Reporting platform (ie DHIS2) • Job description • SOPs for data quality assurance, review, analysis and use • Data validation rules and data quality analytics dashboards • Data validation and monitoring meetings • Training	• Reporting platform (ie DHIS2) • Job description • SOPs for data quality assurance, review, analysis and use • Data validation rules and data quality analytics dashboards • Data validation and monitoring and review meetings • Training	• Reporting platform (ie DHIS2) • Job description • SOPs for data quality assurance, review, analysis and use • Data validation rules and data quality analytics dashboards • Data validation and monitoring and review meetings • Training	**New:** • ADEx reporting using DHIS2 data quality toolkit • Data validation rules in partner portal • Data validation tools • Analytical dashboards

Highly recommended data quality investments

Based on the country's HMIS maturity level, **High Impact and Core portfolios** should consider with the following activities:

1. Develop a **national data quality improvement plan** following a periodic national or targeted data quality audit to address identified root-causes.

2. Adopt and use the **DHIS2 Data Quality Toolkit** (if using DHIS2) as soon as possible. This includes improved data quality functionalities and like analytics.

3. **Digitize Routine Data Quality Assessments (RDQA)** already used in routine supervisions. Routine data audits allow for closer and quicker action on data quality issue resolution at peripheral level.

4. Strengthen existing country data processes, especially at the subnational level, such as data validation and revue meetings, and adapt their scope to **analyze data quality and program performance**, **interpret results, and take action to improve data and program implementation**.
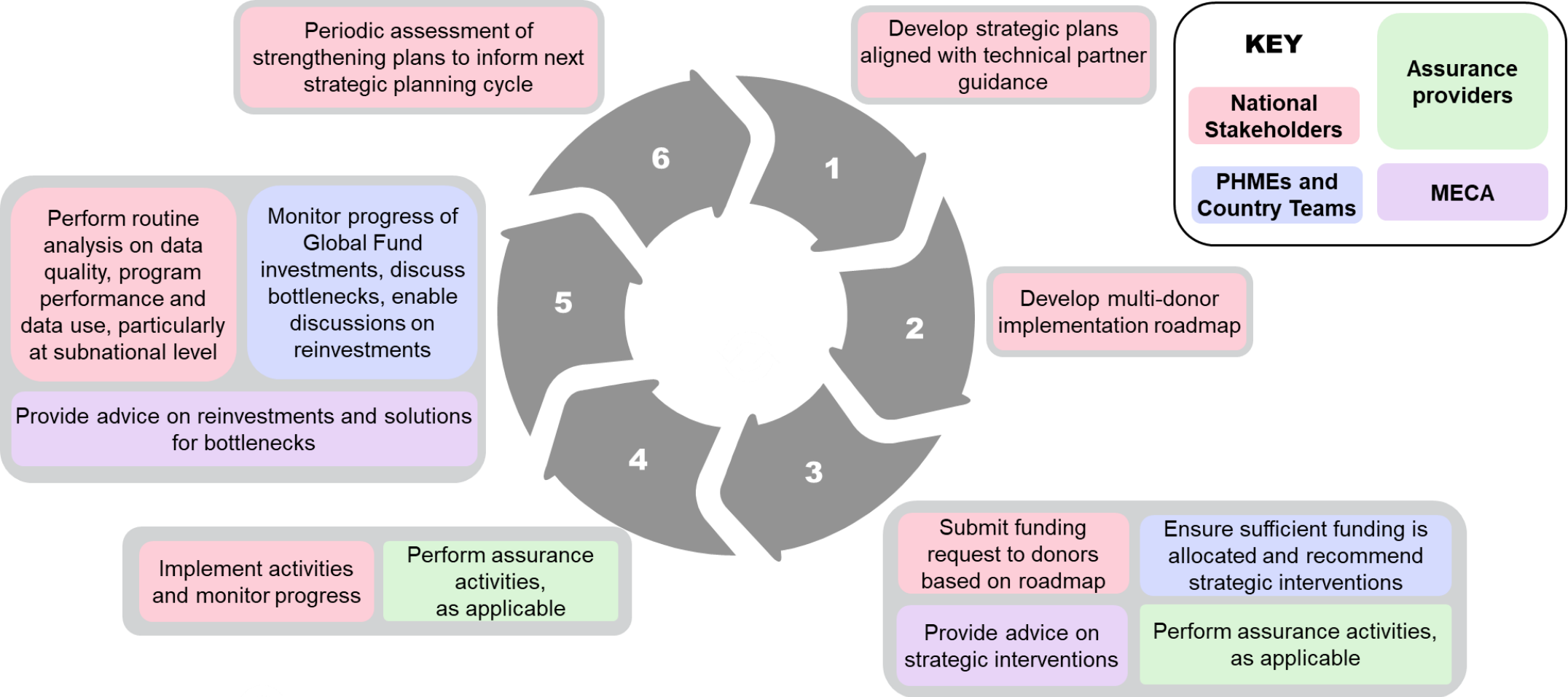
Data Quality metrics monitored by the Global Fund Secretariat by data source and frequency

New metrics in **bold**

Frequency	Digital System	Paper-based System
Annually	• Reporting completeness • **Data element completeness** • Reporting timeliness • **Digital system accuracy proxy or data quality index** • **Consolidated routine accuracy (source: digital RDQA)**	• Reporting completeness • Reporting timeliness
Periodically	Accuracy (source: DQR/tDQR)	Accuracy (source: DQR/tDQR)

By default, every five years, or once in a grant life cycle for tDQR if accuracy +/-20%.

Roles and Responsibilities

Develop strategic plans aligned with technical partner guidance

Develop multi-donor implementation roadmap

Submit funding request to donors based on roadmap

Ensure sufficient funding is allocated and recommend strategic interventions

Provide advice on strategic interventions

Perform assurance activities, as applicable

Implement activities and monitor progress

Perform assurance activities, as applicable

Perform routine analysis on data quality, program performance and data use, particularly at subnational level

Monitor progress of Global Fund investments, discuss bottlenecks, enable discussions on reinvestments

Provide advice on reinvestments and solutions for bottlenecks

Periodic assessment of strengthening plans to inform next strategic planning cycle

KEY

- **National Stakeholders**
- **Assurance providers**
- **PHMEs and Country Teams**
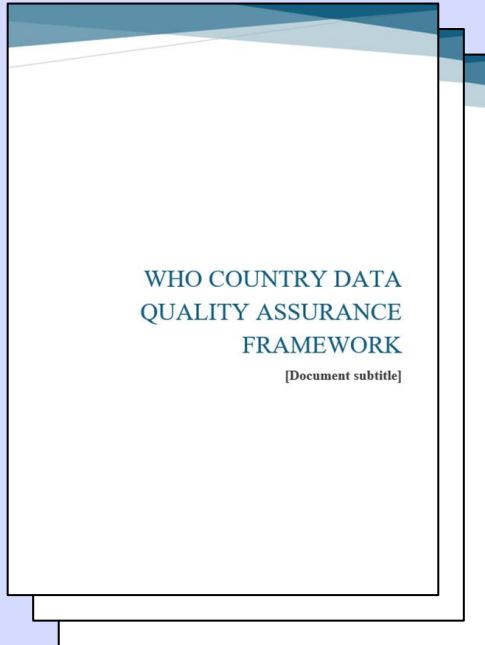- **MECA**

Throughout the implementation cycle

Contribute to partner guidance on HMIS and data quality strengthening investments and translate into guidance for CTs and Global Fund implementers.

Provide technical guidance on strategic data quality investments throughout the grant life cycle

Supportive guidance included in the document

- References

- Annex 1: Decision tree to guide routine data quality interventions and investments, including LFA assurance options

- Annex 2: Funding Request and reprogramming guidance for data quality essentials investments in High Impact/Core portfolios

- Annex 3: Data quality metrics by source and measurement frequency

- Forthcoming WHO DQA Framework

Partner harmonization for alignment with country systems and approaches

WHO COUNTRY DATA QUALITY ASSURANCE FRAMEWORK

[Document subtitle]

- Partner consultation on data quality organized by WHO in December 2023 with Data Strategic Initiative funds.

- Key partners participated: Global Financing Facility, Country Health Information Systems and Data Use (CHISU), PMI, PEPFAR, West African Health Organization (WAHO), UNICEF, Centers for Disease Control and Prevention (CDC), PATH, Malaria Consortium, University of Oslo, Health Information Systems Program of West and Central Africa, AEDES and the Global Fund.

- Results from this partner consultation are in the **WHO Country Data Quality Assurance Framework**, currently under finalization, The objective is to draw partner attention to this topic and begin piloting in interested countries.

Call to action

We are looking for countries who would be interested to pilot approach with partner support (WHO, GAVI, Global Financing Facility, and the Global Fund). If you are interested, please contact your Country Team.

Thank you

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AIDS, Tuberculosis and Malaria

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