

Managing HTS Data Management  
**eTools for Logbook Data Management and Analysis**  
**Laboratory Data Monitoring Team**  
**International Branch, CDC Atlanta**

# Agenda

- Overview of eTools for Logbook Data Analysis
- Roles and Responsibilities of Stakeholders
- Data Flow and Management Overview
- Integration with Data Management Tools
- Live Demonstration of the Data Tool

# Overview

- The HTS Register is a crucial tool in managing and delivering HIV Testing Services (HTS), providing a comprehensive system for documenting test results and follow-up actions.
- Logbook e-Tools streamline the analysis process for monitoring the testing quality.
- A user-friendly tool that facilitates site access for entering summary data for reporting and analysis.

# Stakeholders and Their Roles

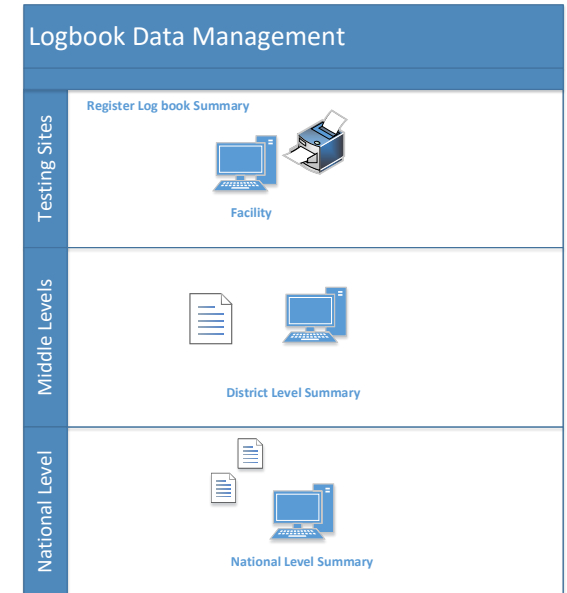
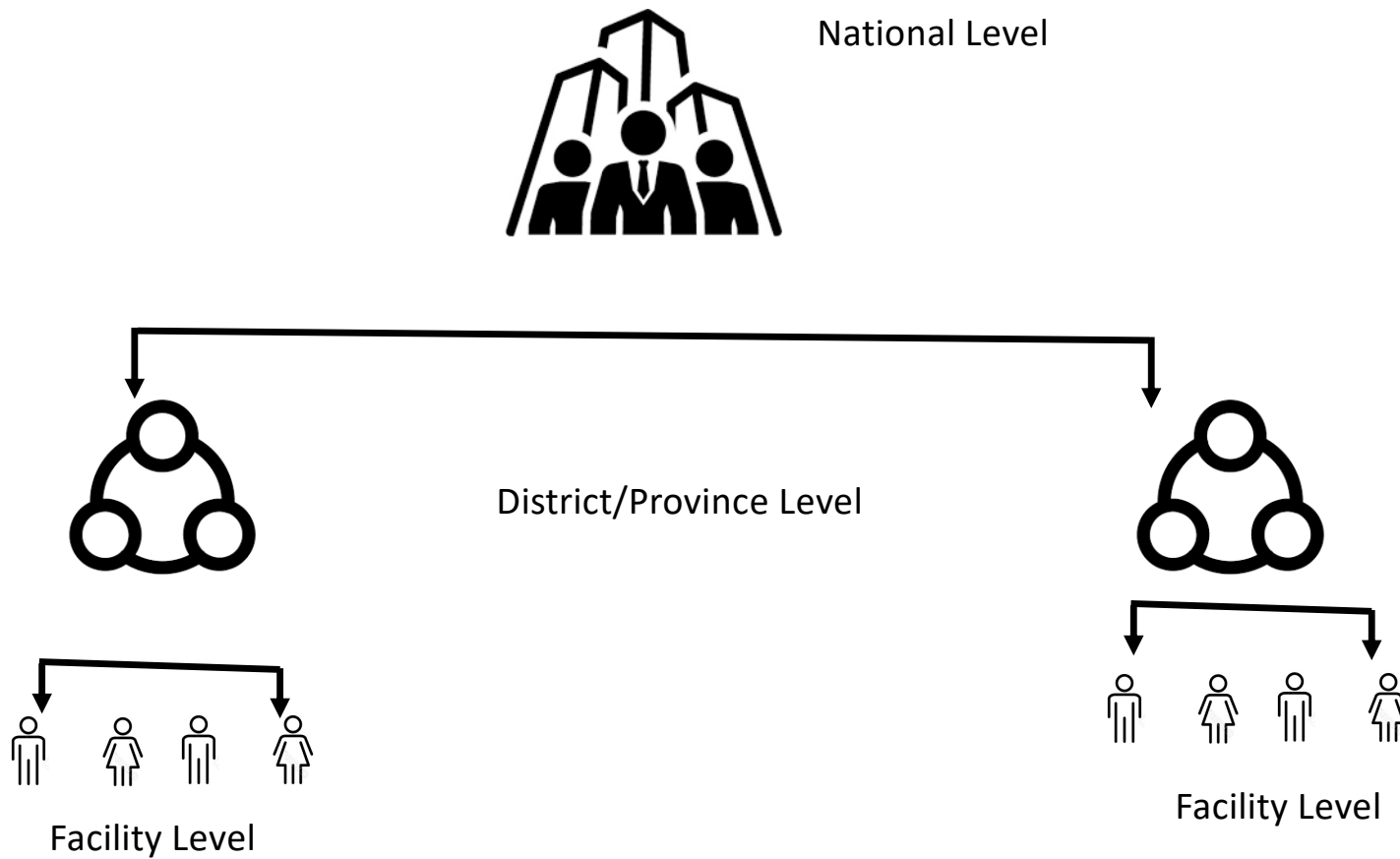
- **Testing Sites**

- Utilize the tool to input page-level summary data on a monthly basis for statistical analysis.
- Each testing point has individual access to its data and analysis.

- **Quality Manager**

- Conducts thorough reviews of all reported data.
- Utilizes analytical tools to assess agreement rates, test kit usage, invalid test results, and percentage positive.
- Provides reports to support testing sites and facilitate decision-making.
- Performs analyses at both the district and national levels with controlled access.

# Data Flow and Management



# Dashboard

Dashboard

7945

Overall Audits



181

No. of Page Summaries (Last 12 Months)



174

No. of Sites Audits (Last 12 Months)



Date Range

01-Dec-2023 to 28-May-2024

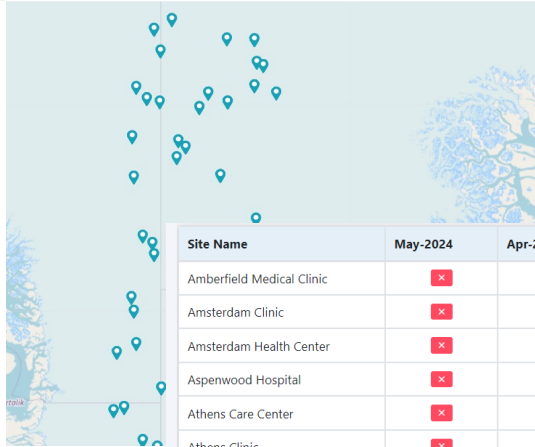
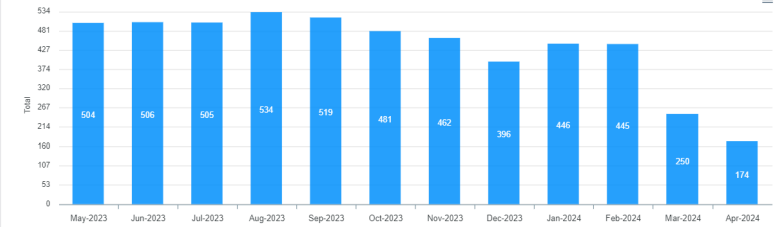
Province

Select Province

District

Select District

SITES REPORTING - LAST 12 MONTHS



| Site Name                 | May-2024 | Apr-2024 | Mar-2024 | Feb-2024 | Jan-2024 | Dec-2023 |
|---------------------------|----------|----------|----------|----------|----------|----------|
| Amberfield Medical Clinic | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Amsterdam Clinic          | ✗        | ✗        | ✗        | ✓        | ✓        | ✓        |
| Amsterdam Health Center   | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Aspenwood Hospital        | ✗        | ✓        | ✓        | ✓        | ✓        | ✗        |
| Athens Care Center        | ✗        | ✗        | ✗        | ✓        | ✓        | ✓        |
| Athens Clinic             | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Athens Health Center      | ✗        | ✓        | ✓        | ✓        | ✓        | ✗        |
| Athens Hospital           | ✗        | ✗        | ✓        | ✓        | ✓        | ✗        |
| Athens Medical Center     | ✗        | ✗        | ✗        | ✓        | ✓        | ✓        |
| Athens Wellness Center    | ✗        | ✗        | ✗        | ✓        | ✓        | ✓        |

Recent Monthly Logbook Entries

[View More](#)

Recent Monthly Logbook Entries

[View More](#)

| Site Name                     | Site Type     | Date Of Collection | Start Date       | End Date         | Total Tests |
|-------------------------------|---------------|--------------------|------------------|------------------|-------------|
| Riverpark Medical Clinic      | Health Center | 11-December-2024   | 01-November-2023 | 30-November-2023 | 1518        |
| Oslo Medical Center           | Health Center | 11-December-2024   | 01-November-2023 | 30-November-2023 | 454         |
| Starwood Medical Facility     | Health Center | 05-December-2024   | 01-November-2023 | 30-November-2023 | 160         |
| Athens Care Center            | Health Center | 04-December-2024   | 01-November-2023 | 30-November-2023 | 48          |
| Prague Medical Center         | Health Center | 01-December-2024   | 01-November-2023 | 30-November-2023 | 434         |
| Cedar Park Health Center      | Laboratory    | 01-December-2024   | 01-February-2024 | 29-February-2024 | 360         |
| Willow Park Health Center     | Health Center | 15-November-2024   | 01-October-2023  | 31-October-2023  | 26          |
| Silverstone Medical Clinic    | Health Center | 13-November-2024   | 01-December-2023 | 31-December-2023 | 125         |
| Goldenfield Medical Clinic    | Health Center | 12-November-2024   | 01-December-2023 | 31-December-2023 | 172         |
| Crescentwood Medical Facility | Health Center | 12-November-2024   | 01-December-2023 | 31-December-2023 | 510         |



# Data Analysis

Show 10 entries Search:

| Site                        | Algorithm | Testing Period | Total Tests | Test 1 |       |     |       | Test 2 |    |     |       | Positive | New  |
|-----------------------------|-----------|----------------|-------------|--------|-------|-----|-------|--------|----|-----|-------|----------|------|
|                             |           |                |             | R      | NR    | INV | Total | R      | NR | INV | Total |          |      |
| Oslo Health Center          | Serial    | Jan-2023       | 10362       | 20     | 10342 | 0   | 10362 | 20     | 0  | 0   | 20    | 20       | 1891 |
| Mountain Glen Health Center | Serial    | Mar-2023       | 6300        | 65     | 6235  | 0   | 6300  | 65     | 0  | 0   | 65    | 51       | 6235 |
| Madrid Clinic               | Serial    | Feb-2023       | 4405        | 21     | 4384  | 0   | 4405  | 21     | 0  | 0   | 21    | 21       | 4384 |
| Mountain Glen Health Center | Serial    | Jan-2023       | 4173        | 35     | 4138  | 0   | 4173  | 35     | 0  | 0   | 35    | 35       |      |

Trend Report Chart

Number of Tests

Legend: Indeterminate (blue dot), Positive (red dot), Negative (green dot)

## Test Kit Use Report

Filter the data

Date Range \*  
01-Nov-2022 to 30-Apr-2024

Province Name  
Select Province Name

District Name  
Select District Name

Sub District Name  
Select Sub District Name

Testing Algorithm  
Select Testing Algorithm

Test Site Name  
Select Test Site Name

Report Frequency  
Monthly

Search Reset Export Export Test Kit Summary

| Site                  | Algorithm | Testing Period | Test 1 Used | Test 2 Used | Invalid Result |
|-----------------------|-----------|----------------|-------------|-------------|----------------|
| Harmony Health Center | Serial    | Jan-2023       | 310         | 15          | 0              |
| Harmony Health Center | Serial    | Feb-2023       | 378         | 4           | 0              |
| Harmony Health Center | Serial    | Mar-2023       | 299         | 1           | 0              |

Search Reset

Subject \*  
Please enter the subject

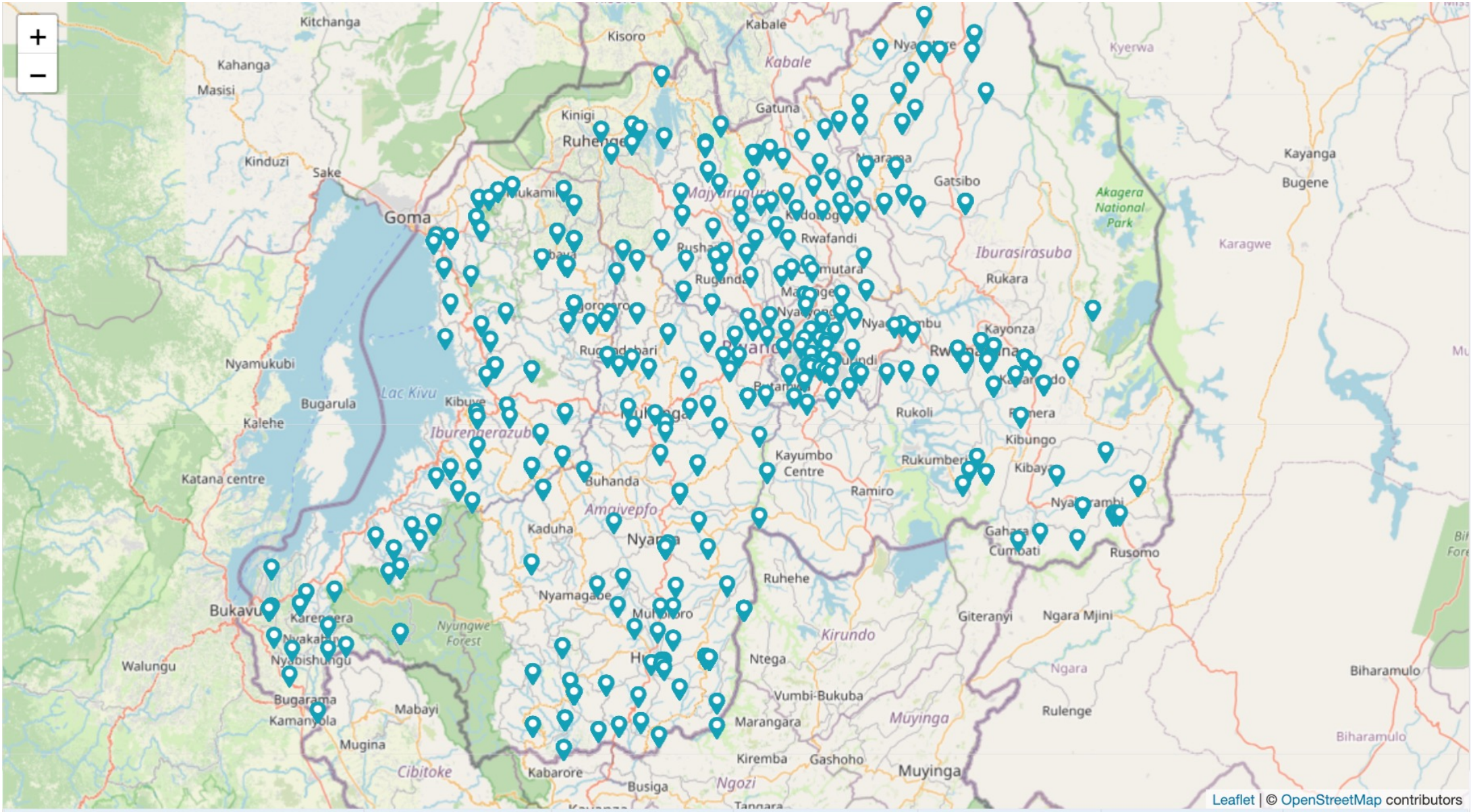
Message \*  
Please enter the message

Selected Test Site Name  
Amberfield Medical Clinic x Amsterdam Clinic x

Send Mail

| Site Name   | Apr-2024 | Mar-2024 | Feb-2024 | Jan-2024 | Dec-2023 | Nov-2023 | Oct-2023 | Sep-2023 | Aug-2023 | Jul-2023 | Jun-2023 | May-2023 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <input checked="" type="checkbox"/> Amberfield Medical Clinic | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| <input checked="" type="checkbox"/> Amsterdam Clinic          | ✗        | ✗        | ✓        | ✓        | ✓        | ✗        | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        |
| <input type="checkbox"/> Amsterdam Health Center              | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| <input type="checkbox"/> Aspenwood Hospital                   | ✓        | ✓        | ✓        | ✓        | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| <input type="checkbox"/> Athens Care Center                   | ✗        | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✗        | ✗        | ✗        | ✓        |
| <input type="checkbox"/> Athens Clinic                        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| <input type="checkbox"/> Athens Health                        | ✓        | ✓        | ✓        | ✓        | ✗        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |





# Implementation Considerations

- **Project Management:** Oversee project execution to ensure timely completion and adherence to objectives.
- **Tool Selection:** Choose the appropriate tool tailored to the country's needs.
- **User Training:** Conduct comprehensive training for end users to ensure effective tool usage.
- **Implementation:** Implement the tool in a stepwise manner to manage complexity.
- **Data Management:** Utilize the Ministry of Health's data servers or other approved service providers for tool implementation.
- **Site Identification:** Standardize site ID usage across SPI-RRT and other tools for consistency.
- **Reporting:** Delegate monthly reporting tasks through eTools to maintain regular updates.
- **Feedback Mechanism:** Utilize ECO sessions to gather and integrate feedback from users.
- **Data Integration:** Connect data to the national PEPFAR reporting system and assess integration with platforms like DHIS2 for broader usability.

# Effectiveness and Integration

- **Efficiency:** Reduces manual effort and time required for data collection.
- **Accuracy:** Ensures timeliness and precision in data collection.
- **Support for Testers:** Provides quality managers with timely information to predict training needs and monitor testing quality.
- **Integration with other Systems:** Includes tester certifications and proficiency testing linkages to support quality assurance.

# Ready to Collaborate and Enhance?

- Engage:
  - Please feel free to ask any questions and provide feedback
  - Share your thoughts on how we can improve or adapt these tools for better efficiency.
- Plan Next Steps:
  - We are here to support you every step of the way. Let's schedule a follow-up to discuss specific implementation strategies.
- Stay Connected:
  - For further inquiries or additional information, don't hesitate to contact me.
    - Email: [app0@cdc.gov](mailto:app0@cdc.gov)

Let's dive deeper into any aspects you're interested. Please visit us at IT Booth.

# Demo -- Scenario Overview

- **Location and Partners:**
- **Country:** Healthland
- **District:** Medville
- **Partners:** HealthPartners Global
- **eTool - Logbook Overview:**
  - **Responsibility:** The National Reference Laboratory oversees the collection and analysis of all testing data.
  - **Site Reporting:** HIV rapid testing sites are required to submit monthly aggregate data to the logbook.
- **Event Example:**
- **Collaboration:** The National Reference Laboratory collaborates with HealthPartners Global to:
  - Collect monthly aggregate data.
  - Conduct data analysis.
  - Provide feedback to testing sites.
- **eTool Usage:**
  - **Role of HealthPartners Global:** Assists various testing sites in reporting monthly aggregate data from the HIV Register.
  - **Review and Feedback:** The National Reference Laboratory analyzes the monthly data and offers feedback.
- **Integration Highlights:**
  - **Tester Certification Linkage:** Demonstrates how the tool integrates tester certification processes with individual tester certifications, enhancing oversight and quality.
  - **Proficiency Testing (PT) Linkage:** Ensures direct integration of PT results with site audits to maintain testing quality.
  - **SPIRRT Linkage:** Establishes a connection between the testing site and the SPII RT checklist to streamline compliance and reporting.

## Demo Objectives:

- This demonstration will guide you through the full cycle of data management from collection to analysis.
- Includes a dashboard demonstration tailored to the outlined scenario, highlighting efficient data entry, management, and reporting capabilities.

Thank You