Trusted Testing

Trusted Labs
An AU Initiative supported by the Private Sector

•••• with Labs at the forefront
ASLM’s mandate of ensuring laboratory quality and excellence strongly aligns with Trusted Travel and Global Haven’s goals of INCREASING TRUST IN MEDICAL DATA EXCHANGES.
Context

Why Trusted Travel?

• Enable reopening of the continental economy without risking disease spread.

• Serious inconvenience for travellers and the authorities as airports and border crossings become jammed with people awaiting test results and clearance.

Why Trusted Labs?

• Prevent shady, overnight, mushroom labs from taking root.

• Emphasise role of accredited, professional, labs.

• Establish preventive screening as a major public health goal.
Countries set Protocols digitally

Example:

<table>
<thead>
<tr>
<th>Ghana Offer</th>
<th>2nd Country Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ghana → Algeria</td>
<td>Vaccine Cert, Quarantine, Covid-19 PCR Test</td>
</tr>
<tr>
<td>Ghana → Angola</td>
<td>PCR Test - 5 days old max</td>
</tr>
</tbody>
</table>

Example of reciprocal offers from country to country
Africa CDC Provides Coordination & Steering

Africa CDC and other supranational authorities are embedded in the process to help adjudicate differences among countries with a view to promoting a uniform, coordinated post-pandemic reopening and future health cooperation.
Citizen-centered

**Trusted Travel** allows citizens to easily understand and obtain information on the latest restrictions applicable to a journey they intend to undertake, as well as on labs and their authorization/accreditation.
Deep Dive: Elements of TrustedTesting
Why TrustedTesting is essential to Reopening

The Human Rights imperative is to identify the most cost-effective, least burdensome, mechanism to restore movement rights within the Union whilst also protecting communities from new variants of disease for which no vaccines and effective treatments are currently available.
The TrustedTesting Quality Assurance Framework

Key Terms:
**Failure Rate**: An accepted rate of error to cater for systemic inadequacies in the Testing Protocols.

**Sampling Rate**: the number of Travelers randomly selected from the total number of disembarking Travellers arriving within a particular period in the destination country within the TrustedTesting Network.

Public Health Authorities set **Failure Rate** on the PanaBIOS platform.

Reports are automatically generated to advise Policy makers.

Public Health Authorities also set a **Sampling Rate** of Travellers who will be randomly picked by the system for re-Testing.

The results of the re-Testing is measured against the **Failure Rate**.
Quality Assurance through Randomisation Validation

Key Terms:

**Failure Rate**: An accepted rate of error to cater for systemic inadequacies in the Testing Protocols.

**Sampling Rate**: The number of Travellers randomly selected from the total number of disembarking Travellers arriving within a particular period in the destination country within the TrustedTesting Network.

1. Public Health Authorities set **Failure Rate** of 0.01%.
2. Public Health Authorities also set a **Sampling Rate** of 10% – Travellers who will be randomly selected by the system and re-Tested.
3. 10,000 Travellers arrive. 10% Sampling Rate, thus Sample Size is 100.
4. 100 Travellers are re-Tested.
5. 3 Travellers test positive.
6. Thus the Sample Failure Rate is 3%.

Policy makers can adjust restrictions accordingly for specific routes and ports.
Integrate Data Aggregates (testing, vaccine, travel) to Track Immunity Evolution & New Strains Distribution
Labs

- Lab functions include:
  - Set up labs.
  - Track and trace samples.
  - Secure, sealed and digitized results.
  - Secure, error-free data sharing and management among authenticated users across the continent.
Generating Seals from Test Results

Easily generate a verifiable secure **Seal** from a Lab Result document.
Append Lab Results to Travel Forms

Travellers easily append their test or vaccine records to Travel forms or “Safe Badges” to enable instant validation by Travel Officials or other Access Inspectors.
Travel Clearance

Port Officials or other Access Inspectors can now validate individual risk status (for infection or other parameter) via 2D barcodes or manual entry codes in a secure, privacy compliant manner.
The Future Outlook: Long Term
Preventive Bioscreening & Mass Diagnostics

In the long-term, the hope is that the TrustedLabs Network becomes an early warning system for future pandemics.

Biomedical labs shall be a major point-of-administration for predictive diagnostics.
Starting point for Integrated Digital Health

If successful, the TrustedLabs Network shall open the door to superior digital health opportunities **across Africa** with biomedical labs at the center.