

OpenLDRv2

Supporting Ministries with Better Data

The Challenge Ministries Face

Laboratory data is the backbone of strong health systems. Yet in many countries, results remain scattered in isolated systems or even on paper, leaving ministries without the complete picture they need. Without timely and reliable data, it is difficult to track capacity, monitor turnaround times or detect outbreaks before they spread.

A Public Health Solution

OpenLDRv2 (Open Laboratory Data Repository) is an open source platform built from the ground up for public health. It can bring together laboratory results from across facilities, programs and systems, translating local codes into internationally recognized standards. Ministries can deploy it locally or in a private cloud, maintaining full control over their own data. The source code is openly available in the [Association of Public Health Laboratories' \(APHL\) GitHub repositories](#) under the Apache 2.0 license, providing a reference implementation that countries can readily adapt and extend to their needs.

What Ministries Can Gain

By piloting OpenLDRv2, ministries can establish a single, trusted view of laboratory performance and disease trends. Dashboards can give officials the ability to see which labs are overloaded and where capacity is available. Standardized reporting can support donor requirements and international health regulations. Most importantly, ministries will have the tools to turn routine laboratory results into actionable intelligence for decision-making.

What Support Can Unlock

Additional resources will make it possible to:

- Launch pilots in partnership with ministries of health
- Customize implementations for country-specific needs such as language, local codes and workflows
- Develop offline capabilities to capture data where connectivity is limited
- Expand coverage to priority diseases and outbreak-prone conditions
- Provide dashboards that help ministries monitor performance and detect risks

Technical Foundations

Dig deeper into the functional aspects of OpenLDRv2 to see if its the right fit for your public health system.

Future Readiness

As the platform grows, it can integrate with national digital health stacks through FHIR-enabled APIs, ensuring that laboratory data flows seamlessly into broader health information systems. Over time, OpenLDRv2 will also evolve with features like AI-assisted plugins and predictive analytics, helping countries anticipate outbreaks and manage resources more effectively.

An Investment in National Control

By investing in OpenLDRv2, partners can help ministries take control of their laboratory data. The platform is open source, adaptable and aligned with international standards. With support, ministries will be equipped to strengthen their health systems, meet donor expectations and better protect their populations.

Get Started Today
Complete our Inquiry Form
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