

OpenHEXA is an open-source data analysis & integration platform for public health projects. It has been built to facilitate the analysis and processing of data (and health data in particular) coming from different sources. It allows users to:

- Explore data coming from a variety of sources
- Schedule data pipelines for extraction & transformation operations
- Perform collaborative data analysis in interactive code notebooks
- Easily connect their data to third-party visualization tools

OpenHEXA also provides flexible access control capabilities: administrators have the possibility to control who can access a specific data source and what operations can be performed on it.

The platform has been designed to be open (easily extensible) and affordable.

General Details

PRIMARY USERS:

Our primary users are health data professionals :

- Decision-makers in ministries of health
- Data specialists in ministries of health
- Data scientists, data analysts, and academic researchers

REACH OF TECHNOLOGY:

OpenHEXA is used in nine countries in sub-Saharan Africa. The majority of our users today are members of ministries of health at the central level who use OpenHEXA to analyse routine results. They are mostly M&E specialists and data managers. In some countries where OpenHEXA is deployed, data integrated by OpenHEXA is visualized at the health district level (for example, the routine Malaria data in the Democratic Republic of Congo). The use of OpenHEXA now extends to international partners such as NGOs and academic research teams, such as UNICEF, the Institute of Tropical Medicine in Antwerp, or the Swiss Tropical and Public Health Institute.

TYPE:

Software Application

OPEN SOURCE LICENSE:

MIT

Access Information

SOURCE CODE

<https://github.com/BLSQ/openhexa>

WEBSITE

<https://www.bluesquarehub.com/openhexa/>

CONTACT

mdewulf@bluesquarehub.com

WHO System Classification

PRIMARY

D2 | D2 Data interchange and interoperability

ADDITIONAL

D6 | D6 Health management information systems (HMIS)

D7 | D7 Knowledge management systems

B5 | B5 Learning and training systems

B6 | B6 Logistics management information systems (LMIS)

E2 | E2 Public health and disease surveillance system

B8 | B8 Research information systems

Standards & Interoperability

STANDARDS

N/A

OPENHIE COMPONENT

Interoperability Layer

Maturity

All maturity model assessments are self-reported by the funded organization leading the software development of the global good.

Maturity Matrix: 2023

Global Utility

Country Utilization	Medium
Country Strategy	Low
Digital Health Interventions	Medium
Source Code Accessibility	High
Funding and Revenue	Medium

Community Support

Developer and Implementer	Medium
Community Engagement	
Community Governance	Medium
Software Roadmap	Medium
User Documentation	Medium
Multi-Lingual Support	Low

Software Maturity

Technical Documentation	Medium
Software Productization	Medium
Interoperability and Data	Medium
Accessibility	
Security	Medium
Scalability	Low

Resources

Documentation URL
<https://github.com/BLSQ/openhexa/wiki/Installation-instructions>

Architectural Documentation URL
<https://github.com/BLSQ/openhexa>

Issue Tracking URL
<https://github.com/BLSQ/openhexa/issues>

Troubleshooting URL
<https://github.com/BLSQ/openhexa/wiki/User-manual>

User Guide URL
<https://github.com/BLSQ/openhexa/wiki/User-manual>

Functional Spec URL
<https://github.com/BLSQ/openhexa/wiki/Home>



Community

OpenHEXA has a growing community of around 250 people, from various countries across Africa and Europe. The community is primarily composed of :

- Health data managers
- Epidemiologists
- IT developers
- Statisticians
- Health Ministry Deciders

The community is engaged mainly through the organization of workshops with partner countries and organizations. During those workshops, participants are trained to use the platform and invited to provide regular feedback about the different features of the tool.

Sustainability

OpenHEXA is supported mostly through implementation funding and investment by the company. Key funders over the last 5 years include The Bill & Melinda Gates Foundation, The Global Fund and The World Bank.

Linked Registries & Initiatives

