IASO

IASO is an open source data collection, campaign monitoring, and facility registry solution used mainly in health, currently in use in performance based financing projects, polio campaigns tracking, facility registries, and support to WFP beneficiaries tracking.

IASO provides a number of core features in support of continuous geospatial data management: a mobile application, a web dashboard, a matching feature to merge various data sources, a data science and scripting interface, and a seamless bi-directional integration with DHIS2. Here are some of the features:
- Structured data collection using the xlsform format as its core, but adding entities and org units (à la DHIS2)
- Managing as many referential lists as you want
- Facilitating the continuous data management of the master lists
- Easy to use by multiple teams in parallel
- Data sciences in support of georegistry management
- Fine-grained, geography-based accesses and traceability
- Planning pre-campaign, micro-planification survey from team dispatch coverage to survey design

It tries to fill a gap in the digital health ecosystem by providing at the same time features as a georegistry (holding the GIS referential, and improving it), large-scale data collection (the brunt of the work), and planification (allocate, using the GIS referential, data collection tasks to do).

General Details

PRIMARY USERS:

Ministries of health, NGOs, WHO, Institute of Statistics, all institutions involved in doing data collection related to locations (typically, statistics that need to be collected offline, then aggregated on a regional level).

REACH OF TECHNOLOGY:

IASO was first created for a project in DRC to gather data about community health workers, where it is still used. It was then adopted to perform data collection for performance-based financing in at least 10 countries, with thousands of users. In many of these countries (Uganda, Burundi, Ivory Coast), we are in the process of hosting the software locally to ensure the sustainability of the projects. IASO has also been used as a georegistry tool for the Ministries of Health of DRC and Niger to update the master facility list of these two countries. Now, it is being used as the platform to encode data about polio vaccination campaigns at WHO Afro and to prepare maps allowing to follow the scope of these campaigns. See here for example: https://afro-rrt-who.hub.arcgis.com/pages/Campaigns(SIAs). Finally, it has been picked by the World Food Programme as the base on which to build their new conditional, on-demand assistance tool, with support for beneficiaries and complex workflows involving mobile devices and NFC cards.

LANGUAGES:

English, French

TYPE:

Software Application

OPEN SOURCE LICENSE:

MIT

Access Information

SOURCE CODE

https://github.com/BLSQ/iaso

WEBSITE

https://www.bluesquarehub.com/iaso/

CONTACT

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WHO System Classification

PRIMARY

D6 | D6 Health management information systems (HMIS)

ADDITIONAL

C1 | C1 Census and population information systems
D5 | D5 Geographic information system (GIS)
B2 | B2 Health finance-related information systems
C6 | C6 Identification registries and directories

Maturity

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Maturity Matrix: 2023

Global Utility

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

Community Support

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

Software Maturity

Technical Documentation	**Medium**
Software Productization	**Medium**
Interoperability and Data Accessibility	**Medium**
Security	**High**
Scalability	**Medium**

Resources

Documentation URL
https://github.com/BLSQ/iaso#long-intro

Architectural Documentation URL
https://github.com/BLSQ/iaso#introduction

Issue Tracking URL
https://github.com/BLSQ/iaso/issues

Troubleshooting URL
http://viz.bluesquare.org/iaso-manual/

User Guide URL
http://viz.bluesquare.org/iaso-manual/

Functional Spec URL
http://viz.bluesquare.org/iaso-manual/

Community

Sustainability

IASO development is supported through multiple contracts with mainly ministries of health for implementation of performance based financing, two grants by the Bill and Melinda Gates Foundation relative to polio vaccination campaigns and health system strengthening, and a development contract with the World Food Programme and a project with USAID/IHP.