Open**LMIS**

Open Logistics Management Information System

SolDevelo
solutions development

Partnership for Innovation

VillageReach is a non-profit global health innovator that develops, tests, implements and scales new solutions to critical health system challenges in low-resource environments. With extensive expertise in health supply chains and logistics, VillageReach focuses on strengthening the "last mile" of healthcare delivery, often in the most rural and hard-to-reach communities.

OpenLMIS is an open source, enterprise-class electronic LMIS tool supported by an international community of donors, partners, implementers, and developers. This community is dedicated to providing continuous support to the countries and health programs that implement OpenLMIS, with a strong, ongoing focus on improving data visibility within health supply chains globally.

The mission of OpenLMIS is to collaboratively develop shared, open-source software in order to improve health commodity distribution in low and middle income countries.

The vision of OpenLMIS is a world where all countries have the logistics data they need to manage their supply chain effectively in order to save lives.
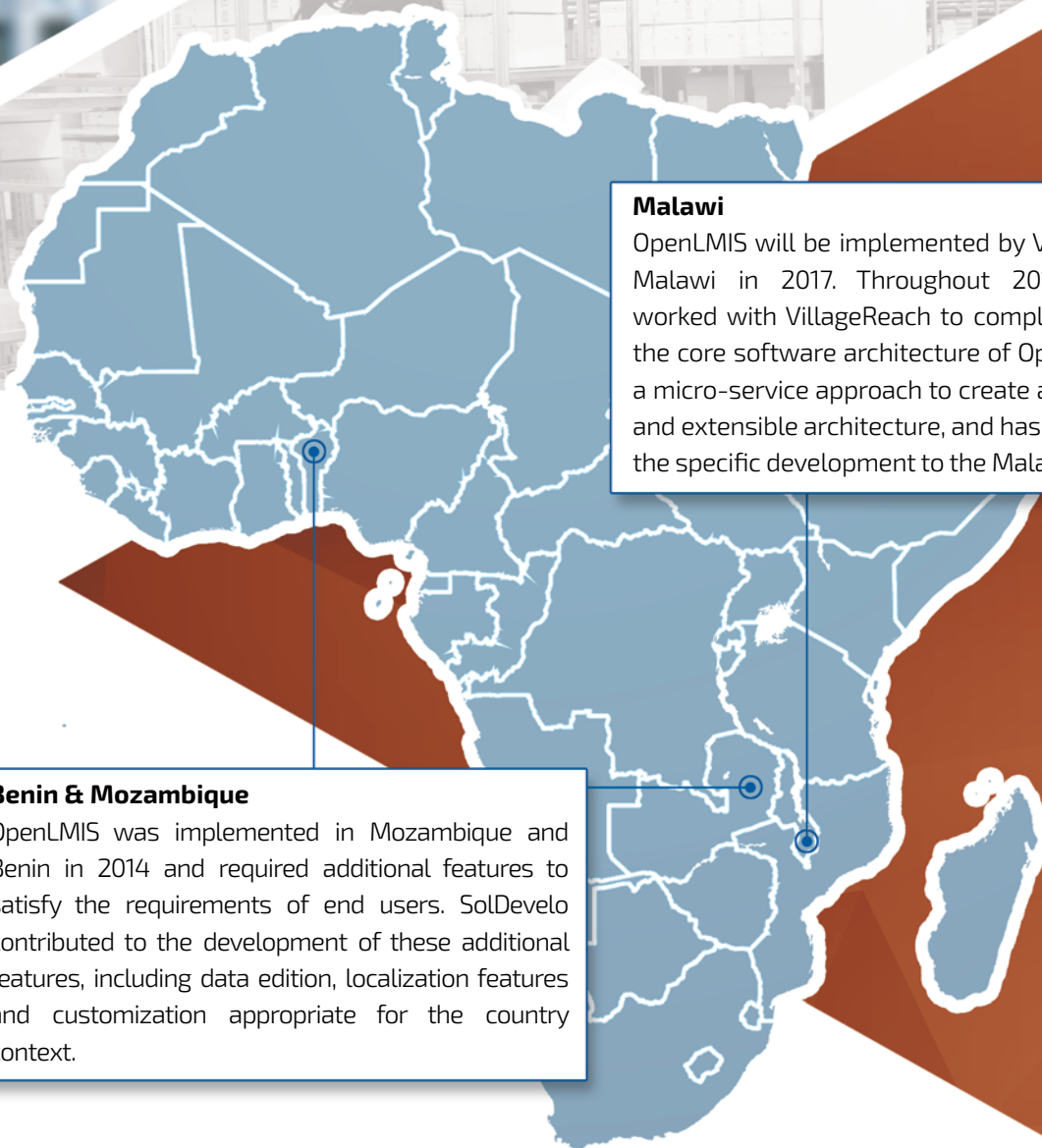
Problem

OpenLMIS has been successfully deployed in six geographies, but as new installations of OpenLMIS were developed and deployed, a key challenge identified was the inability to easily extend the code base, which resulted in a "code fork" between the early implementations and the later 1.0 and 2.0 versions implemented. In an effort to address the fork, the community agreed to begin working toward a common master branch. OpenLMIS version 3 is the result of this major effort to create a shared code base and provide a core set of services.

OpenLMIS version 3 is built with an all-new microservices architecture that better supports customizations and extensions. The goal is to enable multiple OpenLMIS implementations in different countries while still sharing one global, open source codebase.

SolDevelo worked on OpenLMIS implementations in Mozambique and Benin in the past, as well as on other projects from VillageReach. The re-architecture and rewrite of OpenLMIS is the biggest joint endeavor for the two organizations.

See how SolDevelo can help you. Contact us today!

Malawi

OpenLMIS will be implemented by VillageReach in Malawi in 2017. Throughout 2016, SolDevelo worked with VillageReach to completely redesign the core software architecture of OpenLMIS, using a micro-service approach to create a more flexible and extensible architecture, and has contributed to the specific development to the Malawi instance.

Benin & Mozambique

OpenLMIS was implemented in Mozambique and Benin in 2014 and required additional features to satisfy the requirements of end users. SolDevelo contributed to the development of these additional features, including data edition, localization features and customization appropriate for the country context.

Solution

We have been working closely with VillageReach in order to deliver version 3 of OpenLMIS. We have laid out the micro-service architecture, an extensibility model, as well as tied it all together in a reference distribution.

Moreover, we have re-purposed the old version 2 user interface to work as standalone AngularJS application that works as a reference UI for the reference distribution. We are using the business logic from version 2, adjusting it as we go along the way, refactoring it into an easily extensible and flexible micro-service based solution.

17 PEOPLE SolDevelo solutions development — divided into 2 sub-teams

9 PEOPLE OpenLMIS

SolDevelo solutions development

Result

OpenLMIS version 3 release is available!

The OpenLMIS community, representing a global consortium of partners, such as software developers, implementers and donors, collaborated on a full redesign of the OpenLMIS core software, reflecting a more flexible and responsive micro-service architecture.

OpenLMIS version 3 provides better support for customization and extensions than the previous versions through its new service-based, API-driven, modular architecture. The end result is a powerful, flexible product that emphasizes interoperability, extensibility and performance at a scale across countries, programs and products.

The launch of version 3 also represents a renewed focus on community building. Streamlined community processes, transparent development and documentation, as well as information sharing between partners are the hallmarks of the OpenLMIS Initiative in 2017. An updated logo, a refreshed website and a new communications strategy will focus on the expanding of the global awareness of OpenLMIS in order to gain opportunities for implementation.

> *"SolDevelo has been a powerful partner in the development of the OpenLMIS software. They quickly ramped up a skilled development team with expertise in the complex tools our project needed, and have made a lasting contribution to OpenLMIS version 3. Their work on this project will have significant global impact."*

Brandon Bowersox-Johnson, *Software Development Manager, VillageReach*

Technologies used
#Java 8 #Spring framework #Spring Boot #Docker #Nginx #AngularJS #Cucumber

OpenLMIS Releases Version 3!
You can read more about the outcome on the OpenLMIS official site: *openlmis.org*

www.soldevelo.com/contact-us / office@soldevelo.com