

# A Generic and Interoperable UHC Reporting Platform under DHIS2

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In light of the global paradigm of universal health coverage (UHC), the issues around the financing of healthcare services receive new and strong recognition by international partners and national governments. Timely reporting plays a crucial role in the successful implementation of UHC strategies. As a result of a one year project with support from the openIMIS Initiative and Digital Square, HISP India has turned DHIS2 into a generic UHC reporting platform that feeds directly from near-real-time health financing data of health financing management systems. Using Global Goods such as DHIS2 and openIMIS leverages on a mature body of work already running in more than 80 countries, and integrates key health financing indicators mainly around claims management and beneficiary enrollment with National HMIS indicators to provide a more holistic picture of the health system for decision making related to UHC. This presentation is a follow up to a presentation held at the 2019 DHIS2 Annual Conference where the project was announced to the DHIS2 community.

The openIMIS Initiative was set up as a joint initiative by the Swiss and the German Development Co-operations to establish a community of users and developers around an open-source software for Insurance Management Information Systems (openIMIS) and to provide for seamless integration into modern digital health system architectures based on several interoperable health information systems such as the one proposed by the Open Health Information Exchange (OpenHIE) community.

Based on a thorough business analysis of existing requests from openIMIS implementations in Nepal and Tanzania, HISP India had defined general indicators, key performance indicators (KPIs) and reports together with all involved partners. Based on the identified key figures and dimensions, data models were designed and mapped into DHIS2 data structures for use in the existing openIMIS landscapes and as blueprints for upcoming implementations.

An ETL mechanism was created in close collaboration with other projects that aimed at an integration of openIMIS into the OpenHIE landscape. This allows to implement workflows involving other OpenHIE components such as OpenHIM, adhering to interoperability standards such as HL7-FHIR and ADX.

The current version is now being implemented in production in Nepal. Further steps to start an implementation project in Tanzania are in preparation. The generic DHIS2 packages are licensed under an Open Source License and can be downloaded from the openIMIS code repositories.

**Keywords:** openIMIS, OpenHIE, Universal Health Coverage, Health Financing, Health Insurance, FHIR