



open**IMIS**

The opensource tool for Health Financing Schemes

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Overview

- Introduction to openIMIS
 - The software
 - The openIMIS initiative
- Software Demo
- openIMIS on FHIR

Introduction to openIMIS

- The success of health financing schemes depend on highly efficient implementation of multiple, complex business processes.
- Scheme operators in low- and middle-income countries struggle to achieve efficiencies in these schemes when they lack access to appropriate digital technologies.
 - Build own IT system
 - Buy commercial
 - Use opensource ?

What is openIMIS?

openIMIS is an

- **open source software for managing health financing processes.** It helps digitizing the link between patients, providers and payers for health care.

It is **supported by a**

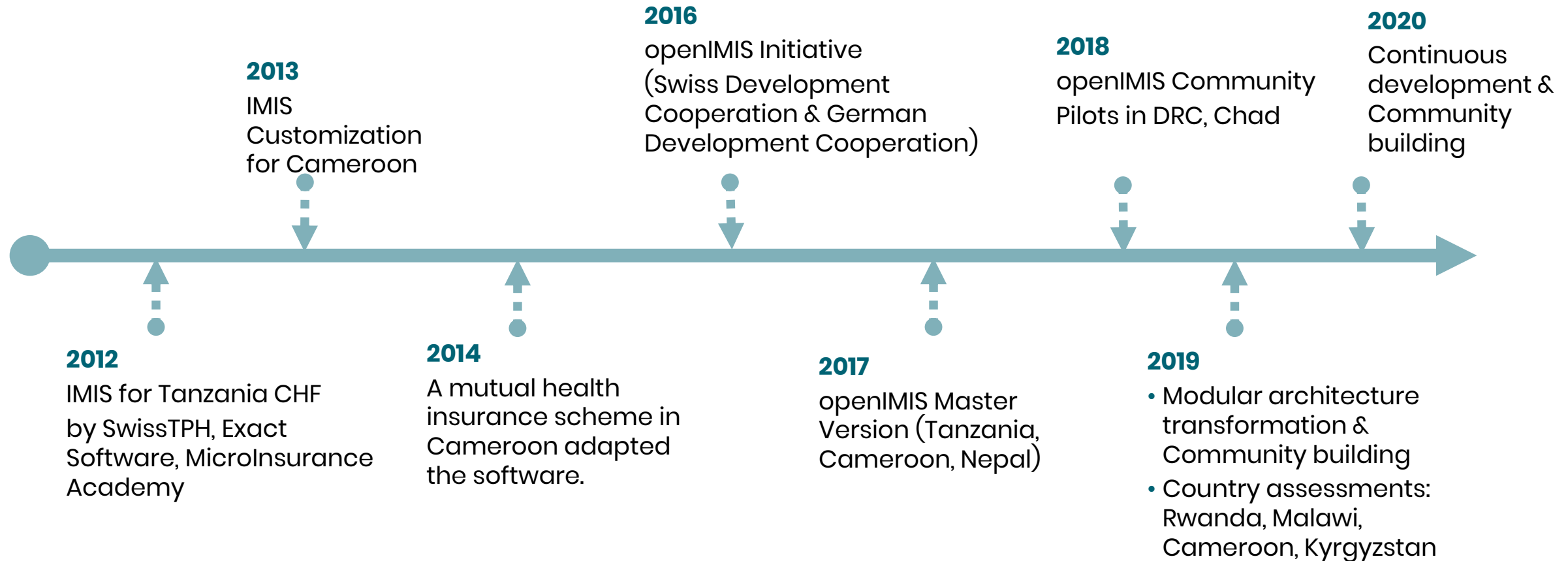
- community of developers, users and implementers

With the **joint mission to**

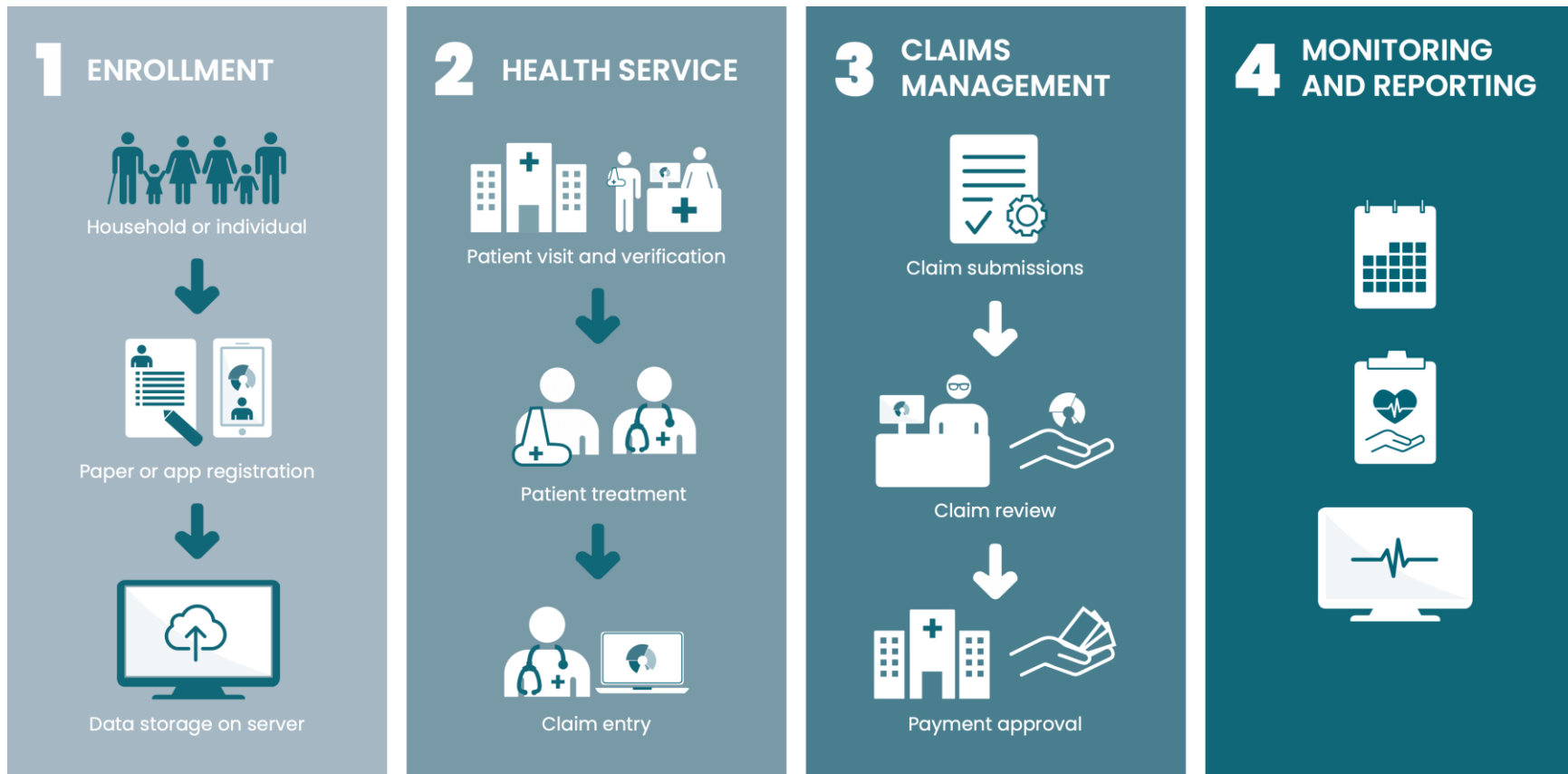
- Increase and improve universal health coverage (UHC) and Universal Social Protection (USP)



The history



openIMIS Workflows



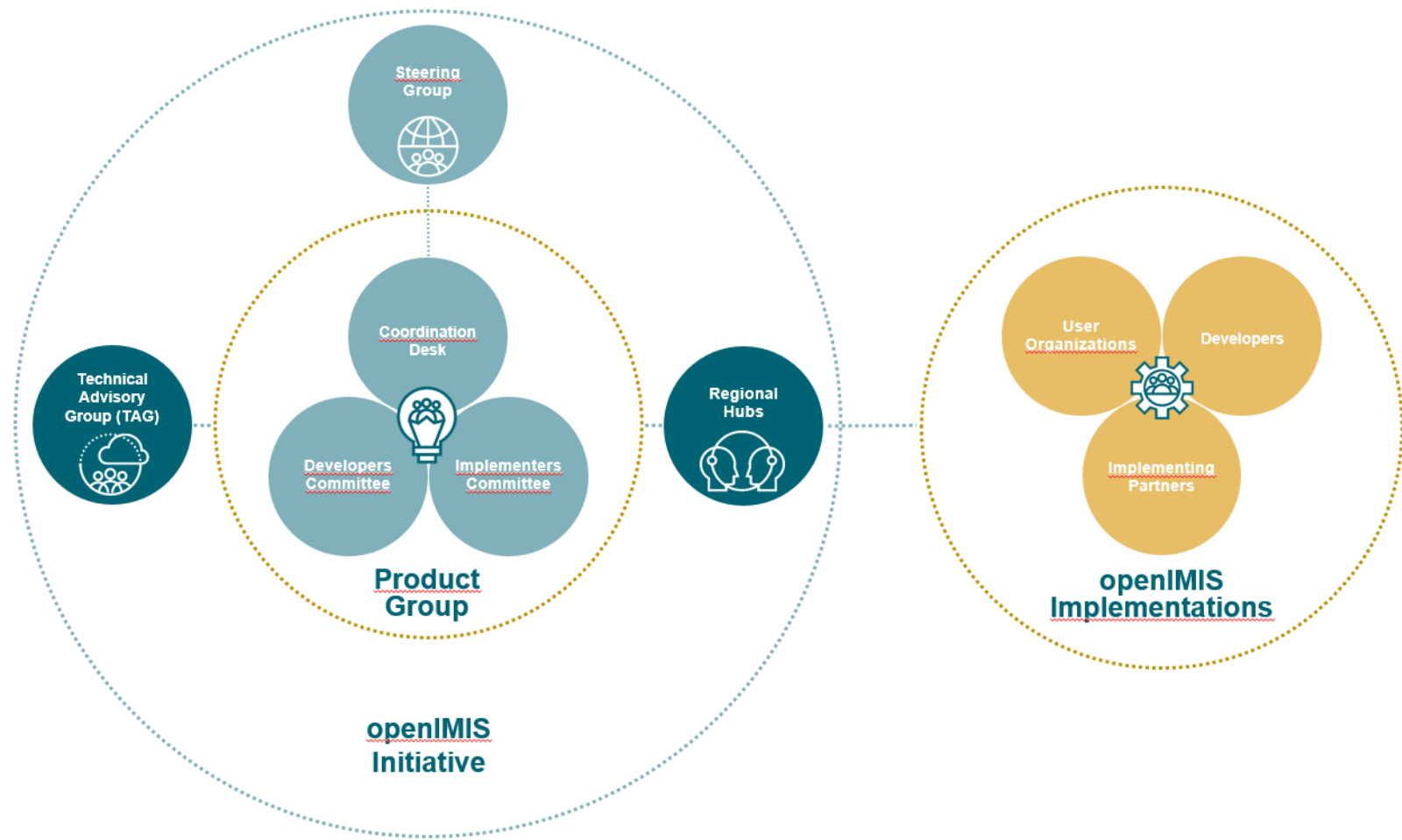
Where is openIMIS used?



openIMIS Implementations

- Tanzania
 - Community Health Funds
 - Multiple instances of openIMIS (~1 million)
- Nepal
 - National Social Health Insurance
 - Single instance of openIMIS (~3 million)
- Cameroon
 - Mutuelle insurance scheme
 - Upcoming: HIV User fee elimination scheme
- Chad & DRC
 - Provincial mutuelle insurance scheme

Governance Structure



Software Details

Open Source !

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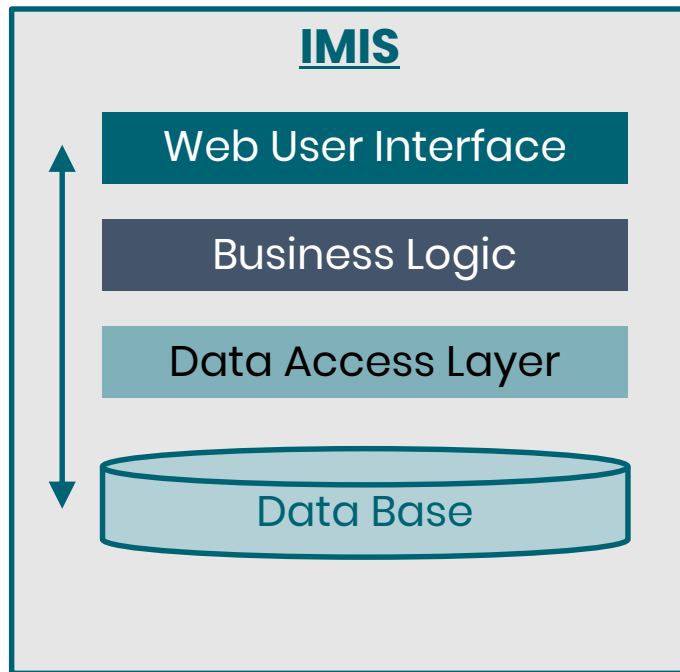
LICENCE

- GNU AGPL v3 License as published by the Free Software Foundation
- Free to use, modify, and redistribute (also freely)

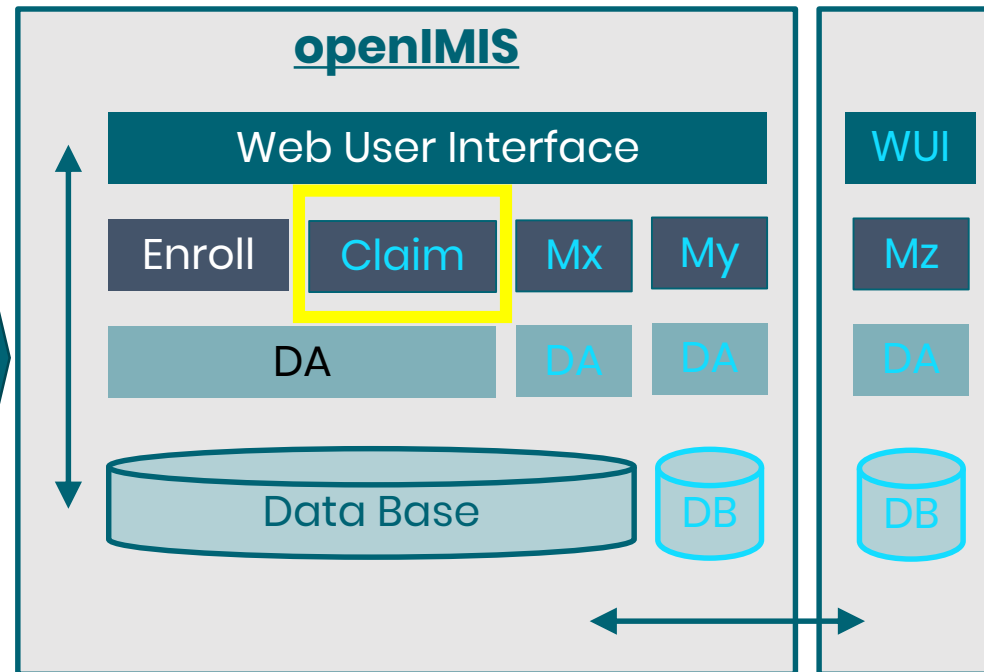
In case of dispute arising out or in relation to the use of the program, it is subject to the public law of Switzerland. The place of jurisdiction is Berne.

Architecture

monolithic



modular



Extending modules

- Enrollment
 - Formal Sector
 - Interoperability: linking with beneficiary management systems
- Claim
 - ML based claim review support
 - Interoperability: linking with Bahmni/openMRS for claim entry
- Data analysis
 - Interoperability: linking with DHIS2
- ** – using openIMIS for accident injury insurance
 - Cash transfer module

Technology Stack

Old

- MS VB ASP.NET
 - Microsoft SQL DB
 - Ability to have offline instances
 - Synchronized with central database
 - Android mobile apps
-
- Future
 - Python (Django Framework)
 - Fhirbase on PostgreSQL
 - React.js
 - Dockerized modules



Demo

demo.openIMIS.org



openIMIS on FHIR

Why?

Interoperability needs

- Claims from EMR
 - On-going (follow <http://bit.ly/2tWjEFX>)
- Data analysis in DHIS2
 - On-going (follow <http://bit.ly/36T2Eia>)
- Beneficiary registries*

Commitment to FHIR

- Target database: FHIRbase on PostgreSQL
- Target version: FHIR v4
- Mapping of openIMIS data model to FHIR resources initiated
 - Overview: <http://bit.ly/openIMIS-FHIR-Overview>
 - Mapping Details: <http://bit.ly/openIMIS-FHIR-Mapping>
 - Overall openIMIS FHIR API: <http://bit.ly/openIMIS-FHIR-API>