

openIMIS

Gumzo ya Mwezi 06/05/2019



Agenda

- Bluesquare:
 - who we are, what we do and how we do it
 - our engagement towards openIMIS community
 - our methodology in openIMIS modular transformation
- Achieved:
 - when we started and what we delivered to openIMIS community so far
- Roadmap
 - what we will deliver and what are our dependencies





BLUESQUARE

www.bluesquarehub.com

Delivering
innovative
technology for
better lives.

Fall 2018 —

what we do

COUNTRY LEVEL DATA SYSTEMS 24 COUNTRIES

We build technologies that enhance governmental health data systems with a focus on three markets:

HEALTH FINANCING DATA SYSTEMS

- Data systems for purchasers, health insurance, Ministries of Health
- Example: Develop a Pay for Performance data system in Kyrgyz hospitals

GOVERNMENT HEALTH DATA WAREHOUSES

- Example: The health data warehouse in Morocco

DISEASE OR THEMATIC DATA SYSTEMS

- Diabetes
- HIV
- Tuberculosis
- Malaria
- Immunization systems
- Vector Borne eradication systems (i.e. sleeping sickness)
- Family Planning
- Emergency Obstetric Care

Bluesquare develops these data systems based on a suite of in-house software products connected to DHIS2 a popular open source data management platform used by over 40 governments.

How we do IT products and data services

We deliver technologies and services that strengthen governmental health data systems, mainly:

Hesabu (aka ORBF)

- An open sourced rule engine that allows complex calculations in DHIS2, a popular open source data management platform. This is particularly useful for health financing data systems.

Data Viz

- A public web dashboard that allows showcasing results.

Modeling and data science

- Statistical analysis, Data cleaning, Modeling & machine learning and analysis automation to help customers bring value out of their health data.

Bluesquare suite of in-house software products and services allow collecting, computing, analyzing and visualizing data in a intelligent and friendly manner.

Bluesquare: our engagement towards openIMIS community

We believe that health insurance will be at the heart of the UHC agenda in many countries.

openIMIS modular transformation is an opportunity to develop code that can be used at scale to help provide health services “for the global good” (i.e. exact DNA of Bluesquare).

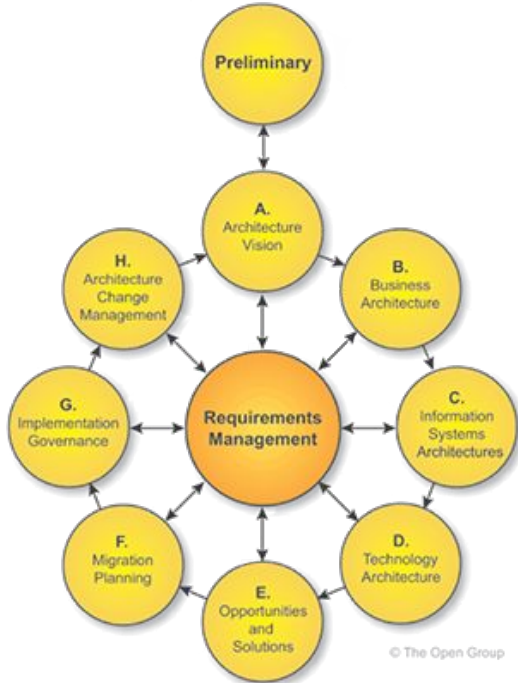
Creating synergies with our existing and future health-financing portfolio, promoting the tool in the countries where we operate.



Bluesquare: our methodology

Our approach to deliver the openMIS modules borrows several concepts from TOGAF, most important one being the ADM (Architecture Development Method):

- Iterative, ensuring pragmatism and responsiveness in delivered solution
- We strive to keep things simple: we aim to use the TOGAF framework as a guide not a rule book. Where we feel it will serve this project we will make use of it. However, our proposed approach is much lighter than a traditional TOGAF implementation effort.
- It helps any community member to find/contribute to the appropriate part of the system.



Agenda

- Bluesquare:
 - who we are
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 - our methodology
- Achieved
 - what we delivered this month
- Roadmap
 - what we will deliver and what are our dependencies



Achieved:

No architecture change to act
(but deliverable not really used yet)

No change in
architecture vision

Anticipated Iteration 3:

- claim module scope document (draft)
- 2 m/d

Under progress:

Objective iteration 1: FHIR API

03/2019 13 m/d

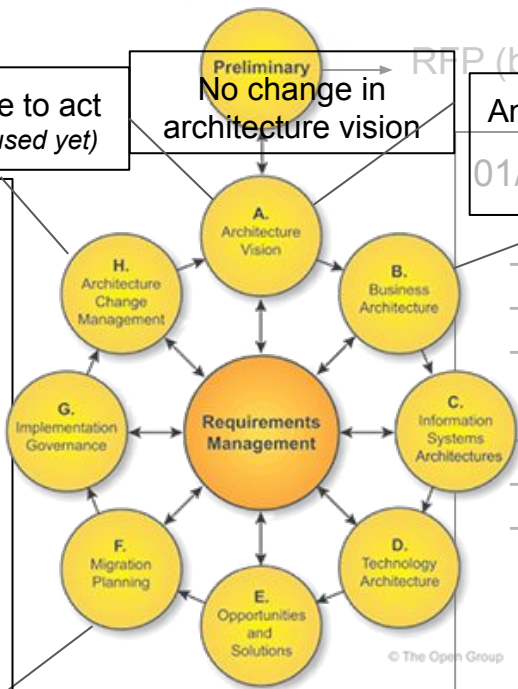
04/2019: 12 m/d

Delivered (Bluesquare):

- Backend development platform (modules...)
- Backend build platform (quality metrics,...)
- Nepali calendar integration
- Security of exposed API
- Reverse modeling of claims (and Insuree,...)
- python services upon ClaimRegister and Eligibility stored proc

TODO (Bluesquare):

follow up, bug fix and adaptations



- Brainstorming (blsq internal)
- Conceptual architecture documentation (in openMIS wiki)
- Architecture Presentations (16/01 and 23/01 + follow-up calls) 6 m/d

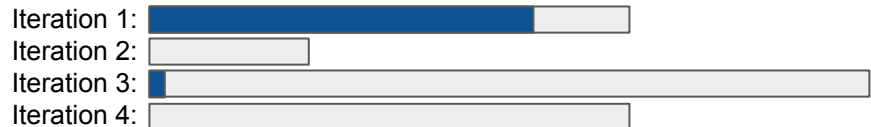
- Technology stack proposal
- Migration strategy & roadmap
- PoC on proposed technology stack (preparation 'hands on' session at Bonn Workshop)

14 m/d

Bonn Workshop

- Demonstrated technology stack and migration strategy
- Agenda alignments

4 m/d



Roadmap (Bluesquare)

- Iteration 1 (04/2019): Building blocks for FHIR API

Dependencies:

- Identified data to be mapped (cfr. xls of Soldevelo) & stored proc to be called
- ✓ Module boundaries (started with the one documented in wiki and shown @Bonn)
- ✓ follow up, bug fix and adaptations

- Iteration 2 (05/2019): “All proxy” openIMIS

Dependencies:

- Login API (adaptation in current openIMIS)
- Screen layout (mainly the menu structure)

- Iteration 3 (09/2019): Claim module

Dependencies:

- Final specifications (starting from existing process)
- Acceptance criteria (test plan,...)

- Iteration 4 (11/2019): 2nd module

