

openIMIS

Gumzo ya Mwezi 05/11/2019



# Agenda

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





[www.bluesquarehub.com](http://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.

A world map with a light blue background. Twenty-four countries are highlighted in white, including all of Africa, the Middle East, and parts of Asia and Europe. A small white airplane icon is positioned over the Indian Ocean, and a white star is located in Southeast Asia. The text '24 COUNTRIES' is overlaid on the map.

24

COUNTRIES

## **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).

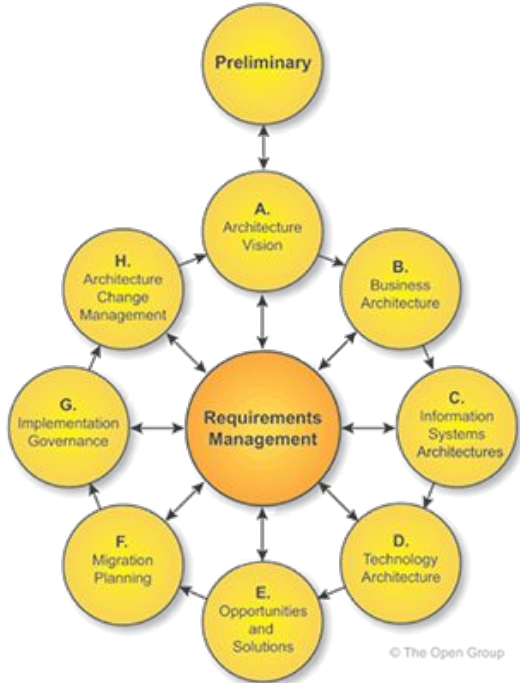
Creating synergies with our existing and future health-financing portfolio, promoting the tool in the countries where we operate.



# 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.



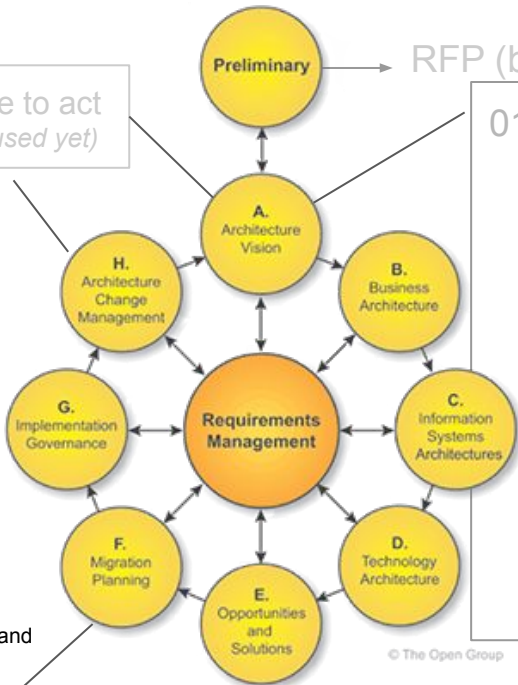


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# Achieved (Iteration 1): FHIR API



RFP (by GIZ) - 10/2018

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

01/2019: start of work

- 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

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## Under progress:

Objective iteration 1: FHIR API

- 03/2019: 13 m/d
- 04/2019: 12 m/d
- 05/2019: 4 m/d
- 06/2019: 0,5 m/d
- 07/2019: 0 m/d
- 08/2019: 1,5 m/d
- 09/2019: 1 m/d
- 10/2019: 0,5 m/d

... [ONCO-127](#) (Eligibility Category as codable concept), and release 1.0.x FHIR API

## TODO (Bluesquare):

follow up, bug fix and adaptations

**Bonn Workshop**

- Demonstrated technology stack and migration strategy
- Agenda alignments

4 m/d



# Achieved (Iteration 3): Claim Module

07/2019: 12 m/d (scope, design & Enquiry)

- Enquiry Screen
- Claim scope & Design

08/2019: 34 m/d (Claim implementation)

09/2019: 29 m/d (Claim refinement)

10/2019: 22,5 m/d

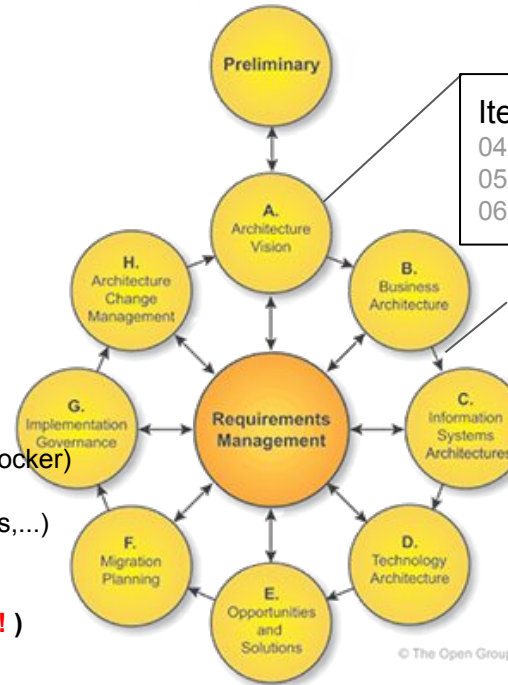
- Install [release.openimis.org](https://release.openimis.org) on Windows 2012 (no docker)

(!! was not foreseen, not standard AND tricky !!)

- Nepali customizations (claim highlights, attachments,...)
- Testing & Bug fixing ([OMT](#) tickets)
- Reviewed reports

**TODO Bluesquare (already 18,5 m/d over budget !!)**

- Batch *(relative prices)* stored proc
- Bug fixing...



## Iteration 3:

04/2019 : Claim module scope document (draft)	2 m/d
05/2019 : Mapping attempt to JLN business processes	0.5 m/d
06/2019 : Claim main screen mockups	4,5 m/d

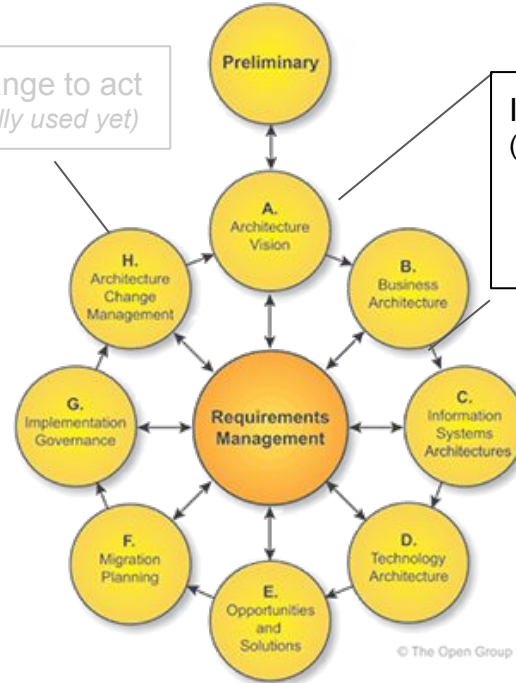
06/2019: Django Dynamic Rest > (GraphQL) 4 m/d

>> Beside bug fixing, estimate ~15 m/d are still necessary for the Batch Processing stored proc & bug fixing

# Iteration 4: Locations & Health Facilities Module

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

Iteration 4: [Locations & HF Administration](#)  
(should be ~ 30-40 m/d)



**11/2019: 1,5 m/d (scope & 'analysis')**

- Define scope
- Gather & review existing docs
- Plan work

**TODO Bluesquare**

- Implementation
- (screen)review meetings
- ...