

openIMIS

Gumzo ya Mwezi 01/03/2021



**Bluesquare**



# 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





**BLUESQUARE**

[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.

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).

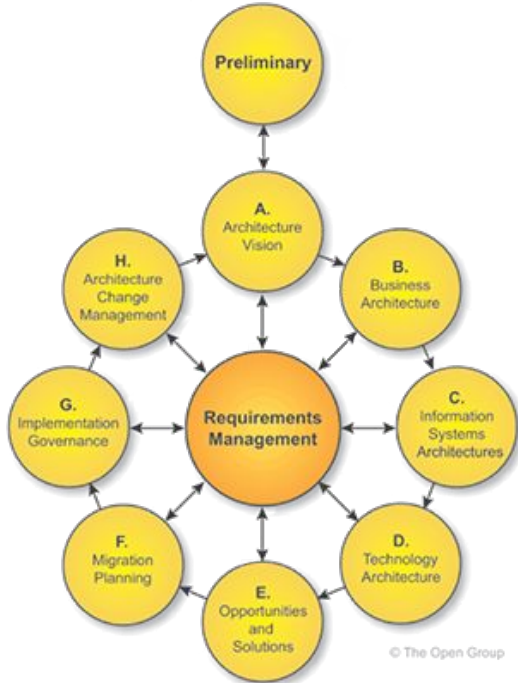
Creating synergies with our existing and future health-financing portfolio, promoting the tool in the countries where we operate.



# 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.





# Bluesquare team

Xavier Gillmann Lead frontend dev

Eric Darchis Lead backend dev

Christine Verstraete Health Financing Lead PM

Laure Pontis PM

Change requests => Jira: [openIMIS Jira, project "OMT"](#)

General discussion and exchanges => [openimis-implementers-committee@googlegroups.com](mailto:openimis-implementers-committee@googlegroups.com)

[openimis-developers-committee@googlegroups.com](mailto:openimis-developers-committee@googlegroups.com)

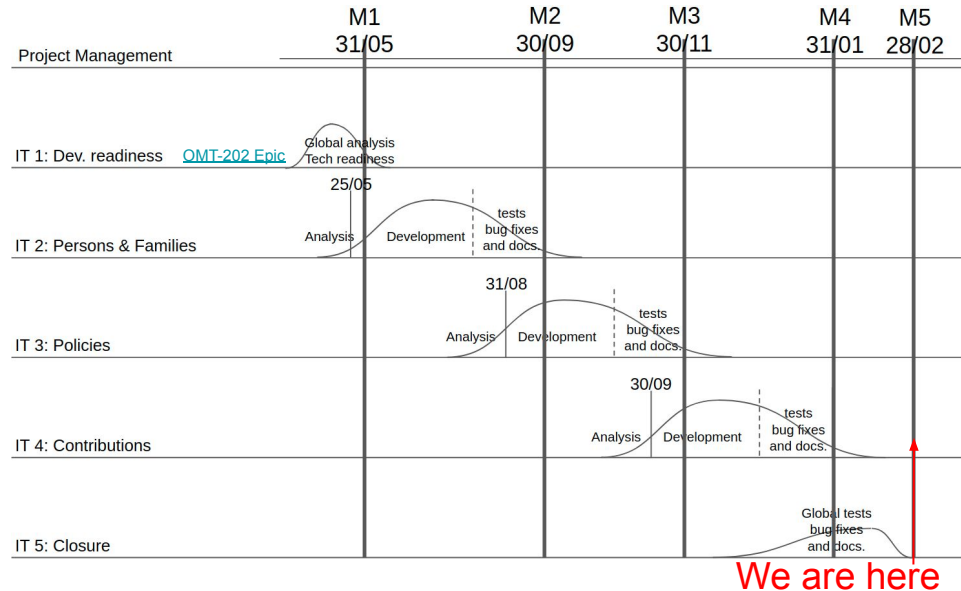
Feedback on mocks/testing => [Wiki https://openimis.atlassian.net/wiki/home](https://openimis.atlassian.net/wiki/home)

All other => PM (Christine and Laure) [cverstraete@bluesquarehub.com](mailto:cverstraete@bluesquarehub.com) [lpontis@bluesquarehub.com](mailto:lpontis@bluesquarehub.com)



# Notice D. (RFA-2019016): Beneficiary enrollment

- **Scope:** migration 'as is' of persons & families, policies and contributions
- **Timeframe:** 9 months (mid May 2020 - mid Feb 2021)
- **Methodology:** continuation of claim and locations & HF's migration



# Iteration 1: Dev. readiness

**Closed iteration with 22% over budget**  
(project 'closure' IT-5 contingency)

## 05/2020 : Epic: [OMT-202](#)

- “Permalink” hack resolution ([OMT-193](#)) - thanks Nils !
- LGTM corrections (visible in PR develop > master)
- Claim & Locations maintenance - thanks Patrick

### Note:

- In review: claim processing ([OMT-193](#))
- Still open: 'account preview'
- Support other teams
  - Participated to form...
  - ... about (MS-SQL) J... ability mechanism... for claim,



9-016 - No Architecture vision change  
20 : Beneficiary Enrollment global analysis  
(SQLN mapping,...)

### Notes:

- screen presented to implementers 27/05
- thanks Patrick for feedbacks

## 05/2020 : Technical Upgrades

### Backend

- django 3
- ~~report bro~~ (1.4 not yet compatible with Windows platform)
- ...

### Frontend

- React 16.13,
- Material-UI 4.9
- Babel,...

# Iteration 2: Persons & Families

## 08-09/2020: TESTING:

- Testing plan
- Aehin testing support
- Nepal testing
- Feedback from implementers
- Feedback from developers

06/2020: (started Insurees & families)

07/2020: (mocks feedbacks, I&F - readonly,...)

08/2020:

- Insurees & Families mutations (write features & testing)
- Coordination meetings
- Support other teams
- intermediary iteration report + F&F

09/2020 :

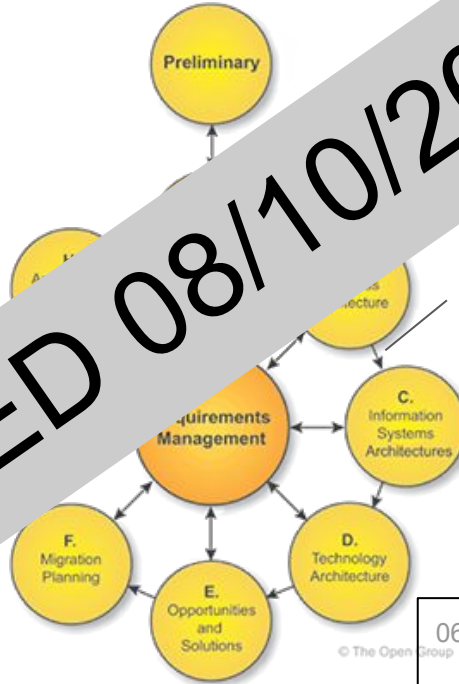
- Testing and debugging
- Documentation

10/2020 :

- Documentation

**TODO Bluesquare Epic OMT-188**

- Finalize documentation (readthedocs,...)
- **Limited** Claim & Locations maintenance
- Support other teams



Analysis & Screen mocks:  
Analysis finalization

06/2020 : Scheduled tasks & JSON extensibility:

# Iteration 3: Policies

## 10/2020: TESTING

- Coordination meetings
- Support other teams
- Feedback on developments

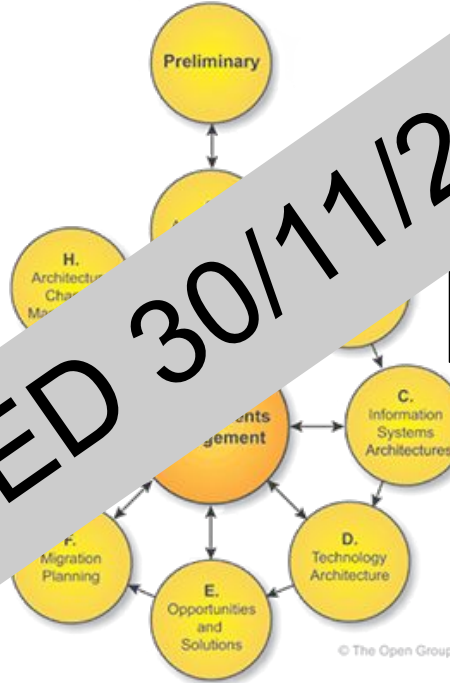
- Documentation
  - Readthedocs
  - Wiki analysis

<https://openimis.atlassian.net/wiki/spaces/OP/pages/65999627/Policies+module+scope>

- Wiki testing

<https://openimis.atlassian.net/wiki/spaces/OP/pages/04476208/New+Policies+Module+Implementation+Testing>

- User guide
- Iteration report



09/2020: Analysis:  
• Screen mocks  
• Additional policy status

09/2020: Feedback on analysis

09/2020 : Development based on mocks

10/2020 : Development

- Policy screens
- Create new policies + Calculation rules:

<https://openimis.atlassian.net/wiki/spaces/OP/pages/1838612485/Policy+Values+Calculations>

- Delete Policy
- Renew policy + Calculation rules:

<https://openimis.atlassian.net/wiki/spaces/OP/pages/1849163809/Policy+Renewal+Values+Calculations>

- Suspend Policy

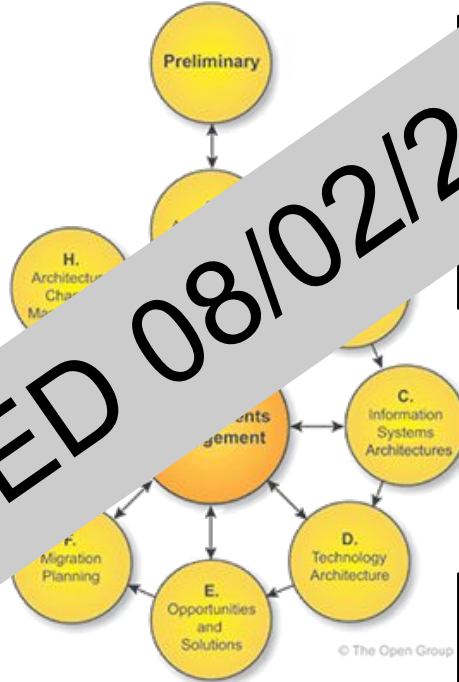
# Iteration 4: Contributions & Payments

12/2020-01/2021:

Upcoming:

- Testing

- Documentation
  - Testing plan released (22/01): <https://openimis.atlassian.net/wiki/spaces/OP/pages/2171174929/Contributions+Payment+Module+scope>
- Upcoming:
  - Read the docs, ...
  - Iteration report - to ...



Contributions & payments module analysis:  
<https://openimis.atlassian.net/wiki/spaces/OP/pages/2171174929/Contributions+Payment+module+scope>  
Screen mocks  
Additional policy status

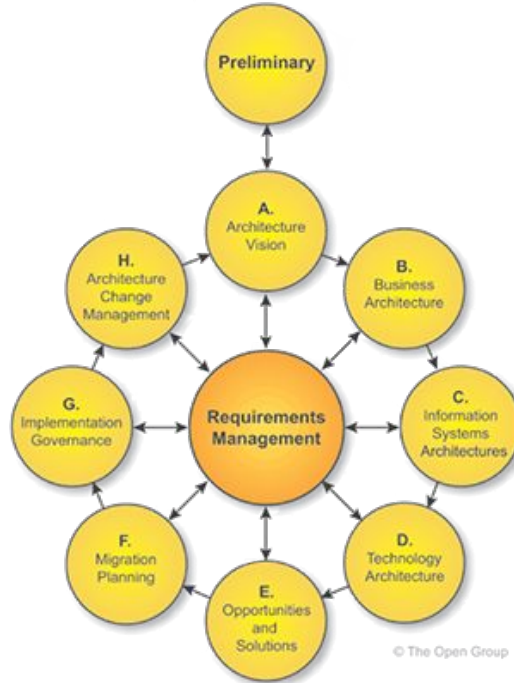
01/2021: contributions & payments development  
work back and front end ongoing  
Unexpected tasks had to be dealt with (complicated policy status management, payment matching bugged) explaining the slight delay  
**Epic OMT-213**

# Iteration 5: Project close

## 02/2021:

- Thorough testing of the different migrated modules
- Support to other teams (Nepal in particular)

- Upcoming documentation
  - Final Technical Report
  - Global Good Final Activity Report
  - Virtual Trip on Interoperability Advocacy Report



# Tender 3 contract starting

**Kickoff presentation held on 4 February**

## **Work packages:**

- Work Package 1 - Architecture Design & Migration Strategy
- Work Package 2 - Migration of the Codebase
- Work package 3 - Community Support and Capacity Building

## **Upcoming this month:**

- Work Plan
- Technical roadmap



# OpenMIS implementation



## PBF/openMIS integration in Cameroon

- Technical discussions have taken place
- Budget in definition

More and more opportunities for openMIS are emerging as both the product matures and many countries digitize their health systems.

