

openIMIS

Gumzo ya Mwezi 03/06/2019



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

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. The landmasses are shown in a darker blue. Twenty-four countries are highlighted in white, including all of Africa, most of South America, and several countries in Europe and 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.

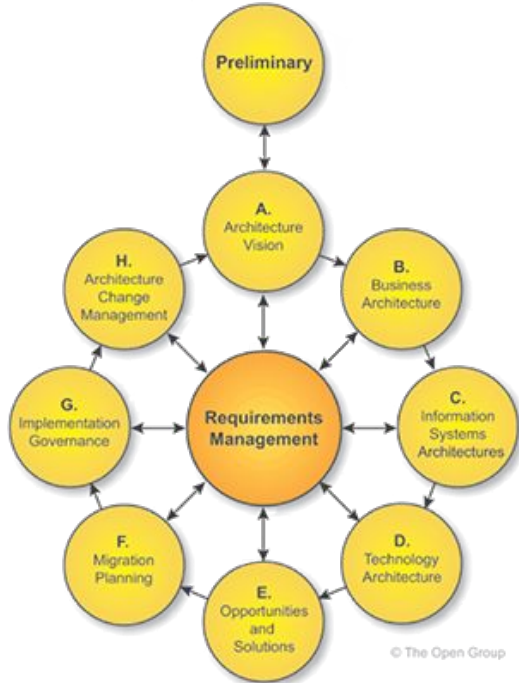
openIMIS modular transformation is an opportunity to develop code that can be used at scale to help provide health services “for the global good” (i.e. exact DNA of Bluesquare).

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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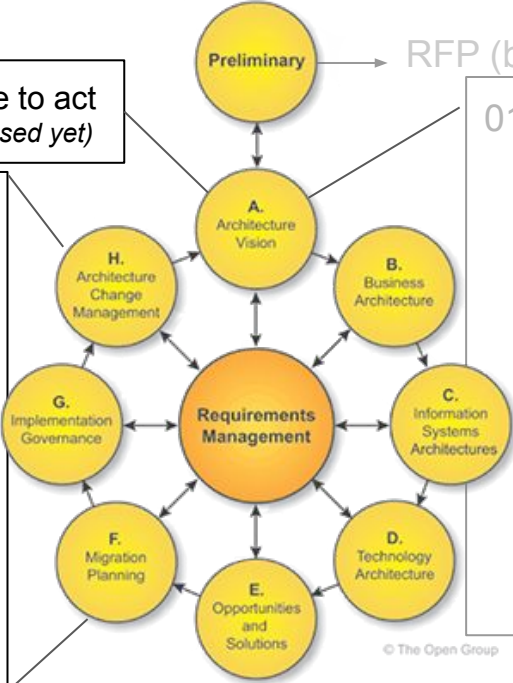


Achieved (Iteration 1): FHIR API

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




Under progress:
Objective iteration 1: FHIR API
03/2019 13 m/d
04/2019: 12 m/d
05/2019: 4 m/d
Delivered (Bluesquare):
- support for server setup
- support for API implementation

TODO (Bluesquare):
follow up, bug fix and adaptations

Bonn Workshop
- Demonstrated technology stack and migration strategy
- Agenda alignments
4 m/d

Achieved (Iteration 2): All Proxies

Under progress:
Objective iteration 1: All proxy (frontend) setup
05/2019: 10 m/d

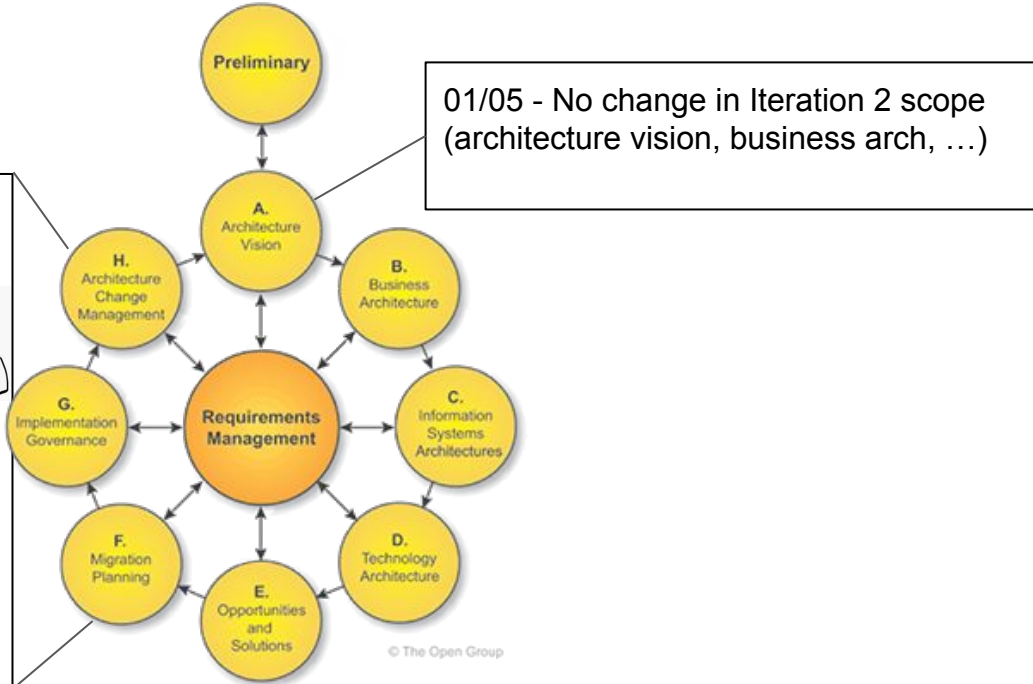


Delivered (Bluesquare):

- Core frontend platform (doc in READMEs)
- Contributed main menu & proxy pages
- Integration in distribution (docker compose)
- Login workaround

TODO (Bluesquare):

- Contributed main searcher
- Login reviewed (without login API)
- Translations



openIMIS

Select category...

Enter Keywords.

- Insurees and Policies ^
- Add Family/Group
- Families/Groups
- Insurees
- Policies
- Contributions
- Claims v
- Administration v
- Tools v
- Profile v

Family/Group

Insurance Number 171000001	Region Ultha	Poverty Status No	Address Details
Last Name Jeremiah	District Jambero	Confirmation Type	
Other Names Joseph	Municipality Actoloby	Confirmation No.	
Family / Group Type	Village Octo		

Insurees

INSURANCE NUMBER	LAST NAME	OTHER NAMES	GENDER	BIRTH DATE	BENEFICIARY CARD
171000001	Jeremiah	Joseph	Male	19/05/1983	<input type="checkbox"/>
171000002	Jeremiah	Olina	Female	10/09/1983	<input type="checkbox"/>
171000003	Jeremiah	Jane	Female	19/07/1983	<input type="checkbox"/>
171000004	Jeremiah	Obui	Female	06/01/2008	<input type="checkbox"/>

Policies

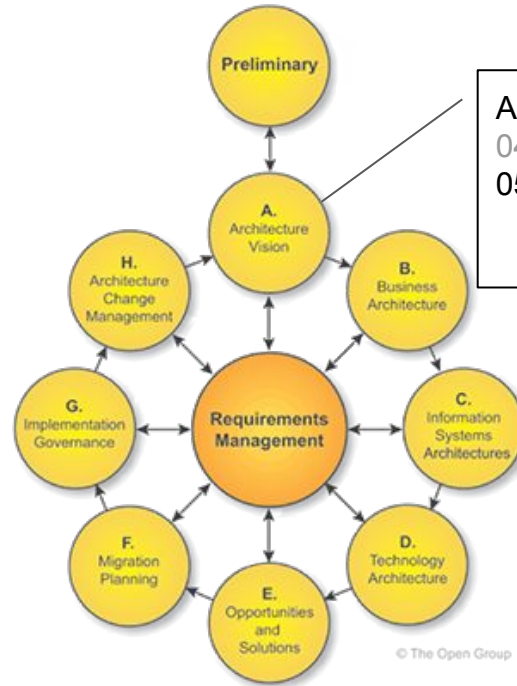
ENROL DATE	EFFECTIVE DATE	START DATE	EXPIRY DATE	PRODUCT	ENROLMENT OFFICER	POLICY STATUS	POLICY VALUE	VALID FROM	VALID TO
24/01/2018	24/01/2018	24/01/2018	23/01/2019	BCUL0001	Jack Raga	Expired	10,000.00	25/03/2018	

Contributions

PAYMENT DATE	PAYER	AMOUNT	PAYMENT TYPE	RECEIPT NO.	CONTRIBUTION CATEGORY
24/01/2018		10,000.00	Cash	RE3241	Contribution

Cancel

Achieved (Iteration 3): Claim Module



Anticipated Iteration 3:

04/2019 : claim module scope document (draft) 2 m/d

05/2019 :

0.5 m/d

- Mapping attempt to JLN business processes
- Claim search screen layout



Insurees and Policies ▾

Claims ▲

Health Facility Claims

Review

Batch Run

Administration ▾

Tools ▾

Profile ▾

Select Criteria

Claim Details

Region	--Select Region-- ▾	HF Name	<input type="text"/>	Visit Date From	<input type="text"/>	To	<input type="text"/>
District	<input type="text"/>	Review Status	-- Select Status -- ▾	Claim Date From	<input type="text"/>	To	<input type="text"/>
HF Code	--- Select HF Code --- ▾	Feedback Status	-- Select Status -- ▾	Main Dg.	<input type="text"/>		
Claim Administrator	<input type="text"/>	Claim Status	Entered ▾	Batch Run	<input type="text"/>		
Insurance Number	<input type="text"/>	Claim No.	<input type="text"/>	Visit Type	Select Type ▾		

2 Claims Found

Select To Submit

CLAIM NO.	HF NAME	DATE CLAIMED	FEEDBACK STATUS	REVIEW STATUS	CLAIMED	APPROVED	CLAIM STATUS	
CIB00001	Juilōa Health Centre	22/12/2018	Idle	Idle	1,000.00		Entered	<input type="checkbox"/>
CID00001	Viru Dispensary	03/01/2019	Idle	Idle	1,670.00		Entered	<input type="checkbox"/>

Add

Load

Delete

Submit

Cancel



 Insurees and Policies

 Claims

 Health Facility Claims

 Review

 Batch Run

 Administration

 Tools

 Profile

Select Criteria



Claim date after 03/01/2018



Claim date before 05/01/2018



03/01/2018

CIB00001



Juilöa Health Centre



03/01/2018

CID00001



Viru Dispensary



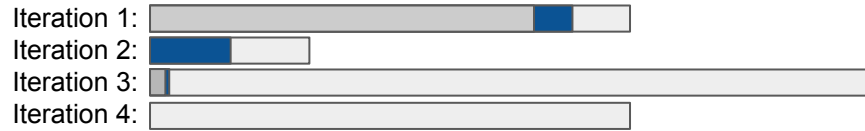
04/01/2018

CIE00001



Fulhui Health Centre





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

