openIMIS

Gumzo ya Mwezi 03/02/2020





## Agenda

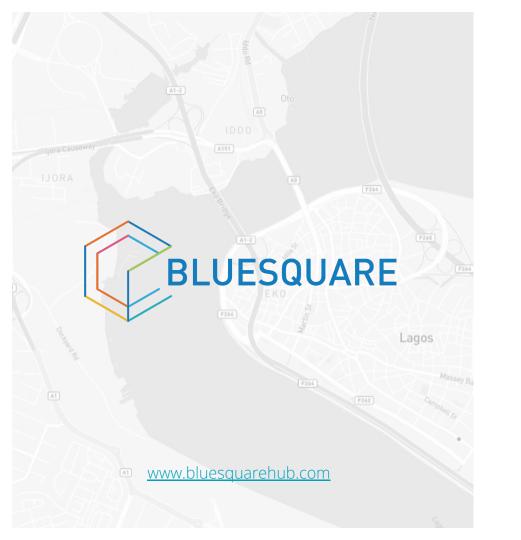
- Bluesquare:
  - who we are
  - our engagement towards openIMIS community
  - our methodology
- Achieved

what we delivered this month

## - Roadmap

what we will deliver and what are our dependencies





Delivering innovative technology for better lives.

# 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

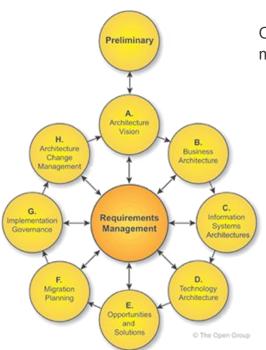
We believe that health insurance will be at the heart of the UHC agenda in many countries.

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 openIMIS 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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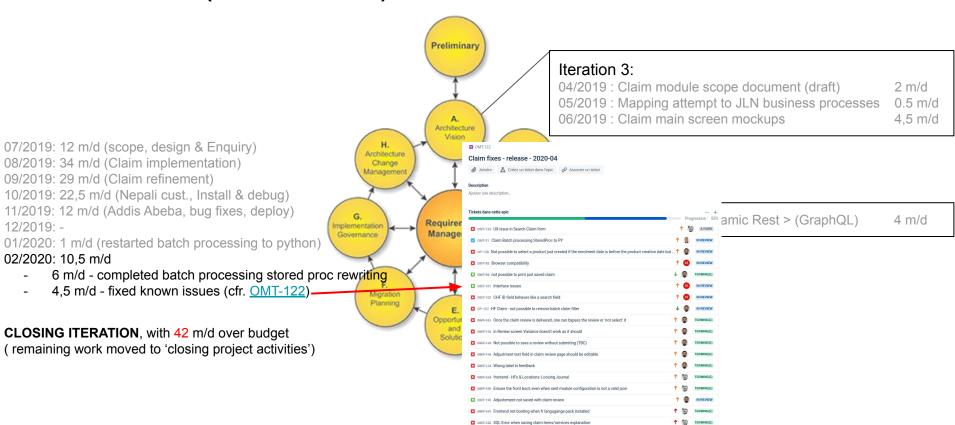
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90 (initial estimate)

## Achieved (Iteration 3): Claim Module



CLOSING ITERATION, with 42 m/d over budget ( remaining work moved to 'closing project activities')

12/2019: -

02/2020: 10.5 m/d

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

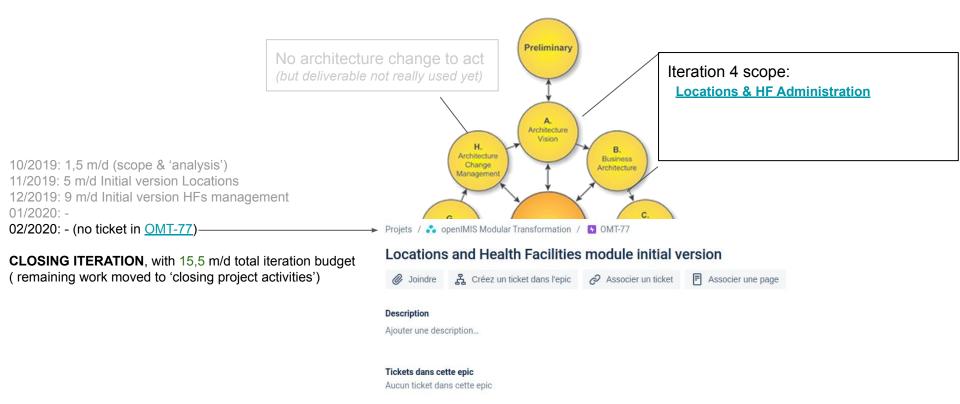
10/2019: 22,5 m/d (Nepali cust., Install & debug) 11/2019: 12 m/d (Addis Abeba, bug fixes, deploy)

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

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

15,5 / 20

Iteration 4: Locations & Health Facilities Module





## Project extensions and closing activities

#### Allocated budget:

I1: 56.5 m/d + I2: 18.5 m/d + I3: 132 m/d + I4: 15,5 m/d = 222,5 m/d (on 240 m/d)

>> Closing activities have a budget of 18,5 m/d left

01/2020: 3.5 m/d (Release, support to other teams, project management....)

#### 02/2020: 3 m/d

- Nepali team support
  - Help configuring test server
  - openimis-fe-claim\_ne: Claim filter customization



--> one **BIG** question (for which I don't have the answer...)

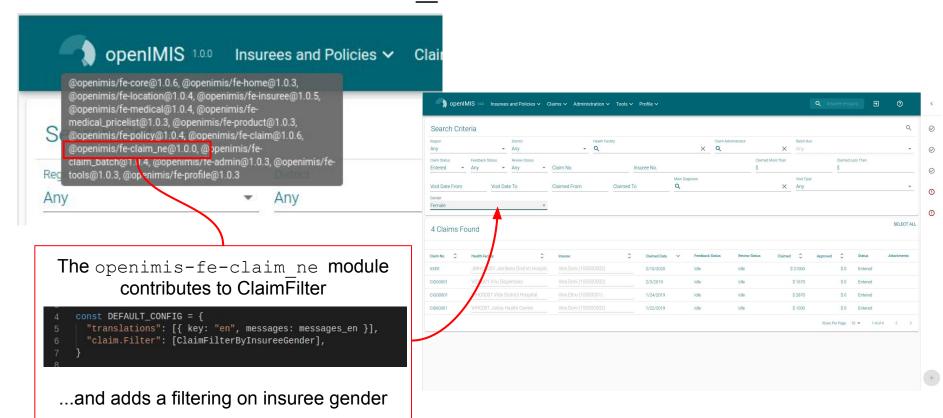
- Project management
- FHIR module fine-grained security (just started)

#### TODO Bluesquare (12 m/d remaining)

- FHIR module fine-grained security (...we just started, still 6-9 m/d estimated to complete)
- Closing reports: are there templates, who/when should I send?
- Latest bug fixes (Népali tests....)
- Other teams support



## openimis-fe-claim ne



## Customizations **BIG** question...

#### Reference product can have **options** that can be configured via db:

https://github.com/openimis/openimis-fe-claim\_js

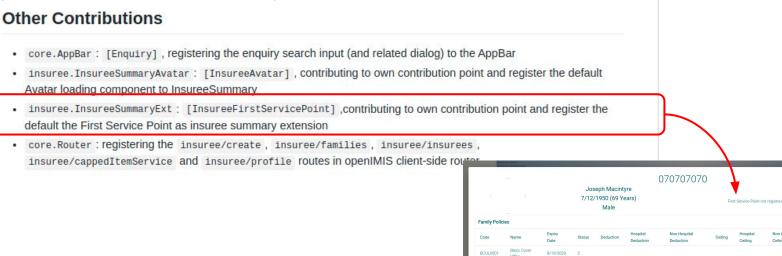
#### **Configurations Options**

- debounceTime : debounce time (ms) before triggering search in ClaimFilter (Default: 800)
- newClaim.visitType: default (pre-selected) visity type when creating a claim (Default: 'O' Other)
- claim.CreateClaim.feedbackStatus: value set to feedback status when creating a claim (Default: 1)
- claim.CreateClaim.reviewStatus value set to review status when creating a claim (Default: 1)
- claimFilter.rowsPerPageOptions: pagination page size options in Claim Searcher component (Default: [10, 20, 50, 100])
- claimFilter.defaultPageSize , pagination pre-selected page size options in Claim Searcher component (Default: 10 )
- claimFilter.highlightAmount , amount triggering the primary highligh (default bold) for claims in claim searcher result. Default: 0 , menaing no highlight threshold
- claimFilter.highlightAltInsurees, boolean to trigger the secondary highligh (default italic) for claims of the same insuree. Default: true
- claimForm.fixedPricesAtEnter, boolean to prevent user to adapt prices at claim entry (fixed to price list). Default: false (user can change the price)
- claimForm.fixedPricesAtReview, boolean to prevent user to adapt prices at claim review (fixed to price list). Default: false (user can change the price)
- claimForm.showJustificationAtEnter, boolean to display justification field(s) for items and services at claim entry.
   Default false:
- claimForm.showAdjustmentAtEnter, boolean to display adjustment field at claim entry. Default false;
- claimAttachments, boolean to enable/disable claim attachments. Default true;

## Customizations **BIG** question...

Reference product can themselves build their own UI via 'own default contributions' (which can be activated/deactivated via db configuration):





## Customizations **BIG** question...

In the same way, **backend modules** can be configured to react (or not) to django events, customize mapping,...

## When/how should we integrate 'features' in the 'reference' product?

- ... procedure and "evaluation committee" to assess
  - the functional (is it useful for others')?
  - AND technical (is it implemented according to guidelines)?