# How low cost technology can standardize and bring greater transparency to micro-insurance schemes

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# **Project Background**

- Context: Health System Support Program (PASS, Sud Kivu) financed by Swiss Cooperation (SDC) and implemented by Swiss TPH and GIZ IS
  - Revitalizing mutual health insurance scheme "Mutuelles de santé", in collaboration with regional social protection and health authorities
- 2017 : Pilot in South Kivu, Democratic Republic of Congo Insurance Management Information System for 8 mutuelles de santé
- Objectives:
  - Strengthening operational processes management improvement
  - Bringing more accuracy to health insurance data => better risk monitoring
  - More transparency to contribution collection and claim management
- ICT4D link: on-line/off-line computer and phone use system to professionalize any type of health financing system including micro-insurance schemes



# **IMIS** History



- 2011-12: SDC funded Health Promotion and System Strengthening (HPSS) project in Tanzania (ongoing)
- IMIS: Insurance Management Information System (developed by Swiss TPH)



 Supporting district-based government health insurance models in Tanzania, now moving to regional/national



Centralized governmental model in Nepal

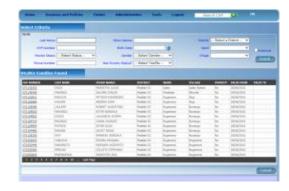


Community Based Health Insurance / mutuelles in Cameroon and recently started in Democratic Republic of Congo and in Chad

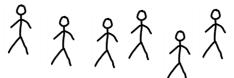


# Technological support and users











• On-line or Off-line system



• Uses mobile technologies to support enrolment, renewals, client enquiry, claims and feedback processes



# Transitioning process from IMIS to openIMIS



 The system evolved organically based on the user needs and their respective insurance schemes.





2016: different countries' versions merged into one "Master Version"





• 2018: Source code is made available on GitHub. The openIMIS Initiative is setting up an open source community based on developers and users. The software will follow a modular and interoperable system architecture.

http://openimis.org/

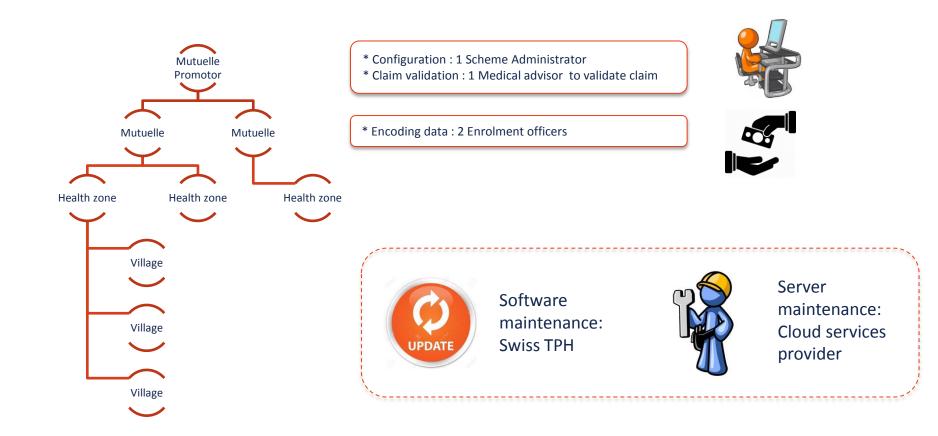
 Co-financing agreement between Swiss and German cooperation (SDC and BMZ), GIZ has been commissioned to coordinate this transitioning process with Swiss TPH as an implementation partner.



### **Dataflow within IMIS**

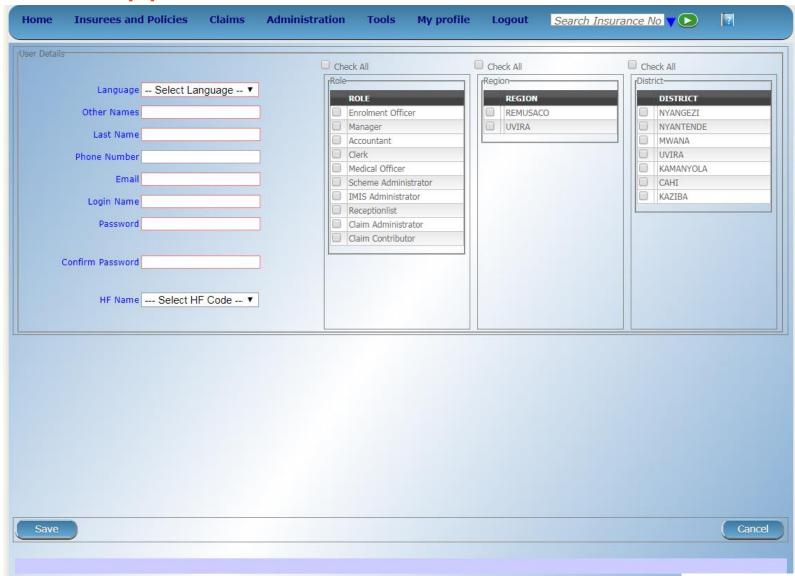


# Staff support, the case of "Mutuelle de santé" in DRC, South Kivu





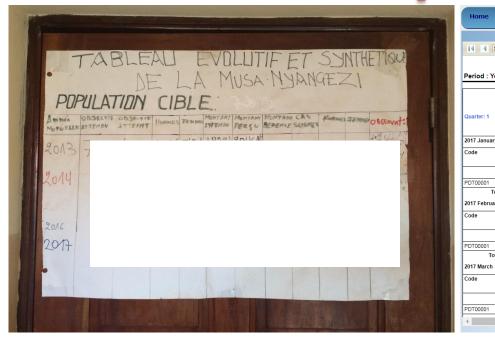
# Staff support and IMIS users

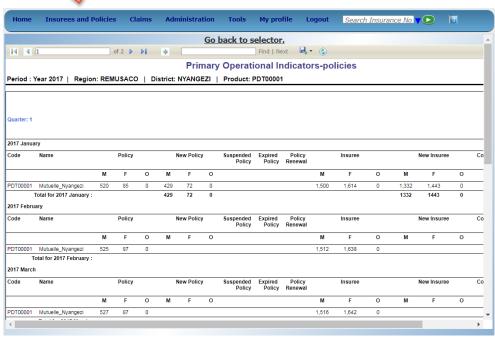




### **Key Successes**

- Two instances are well configured and used online
- Insurance agent, Medical doctors, IMIS administrators are trained for 8 mutuelles
- 16672 insuree, 3508 families entered in the system
- 2512 policies activated
- Medical advisers tested claim management module: 346 encoded, 186 evaluated, including 40 rejected





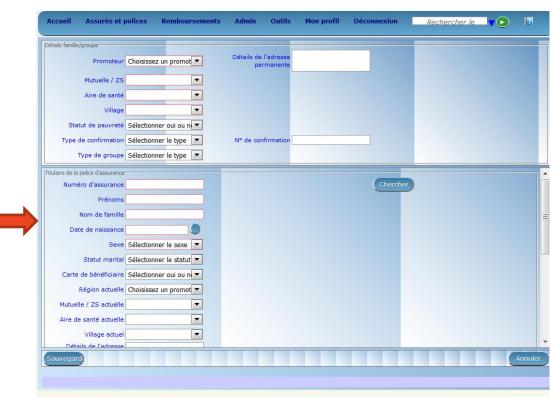


# Standardizing enrolment information encoding

#### 1. Based on Enrolment agent note book 2017



- 2. Encode following mandatory information:
- Insurance number / Surname / Family name / Date of birth. If you have only year, encode 01/06/YYYY / Sex
- Address / Marital status / Phone Number / Profession / Adherent card
- 3. Report insurance number in the note book





# Improving identification of insurees and claim management

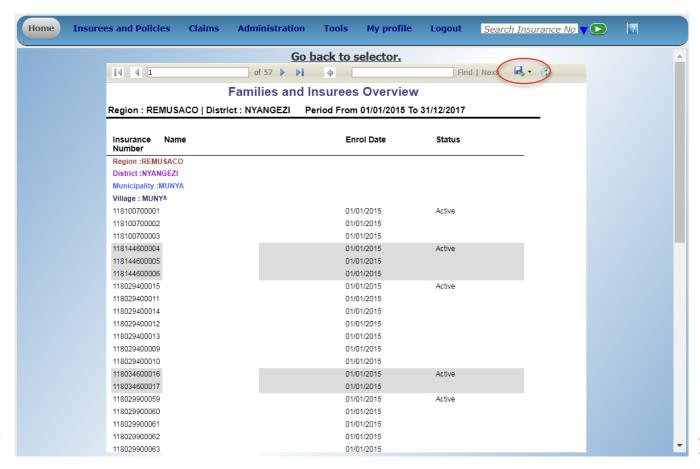
#### Today's process of identification:

 Voucher « bons de soins » are delivered by the mutuelle to allow insured members to access health facilities.



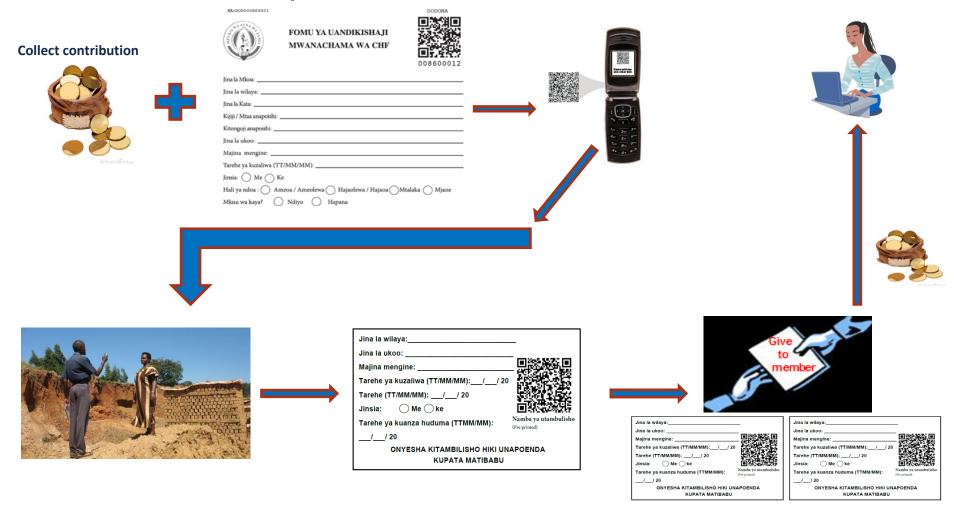
Claims can be paid to non-insured:

- lack of verification at identification process
- lack of verification at claim process



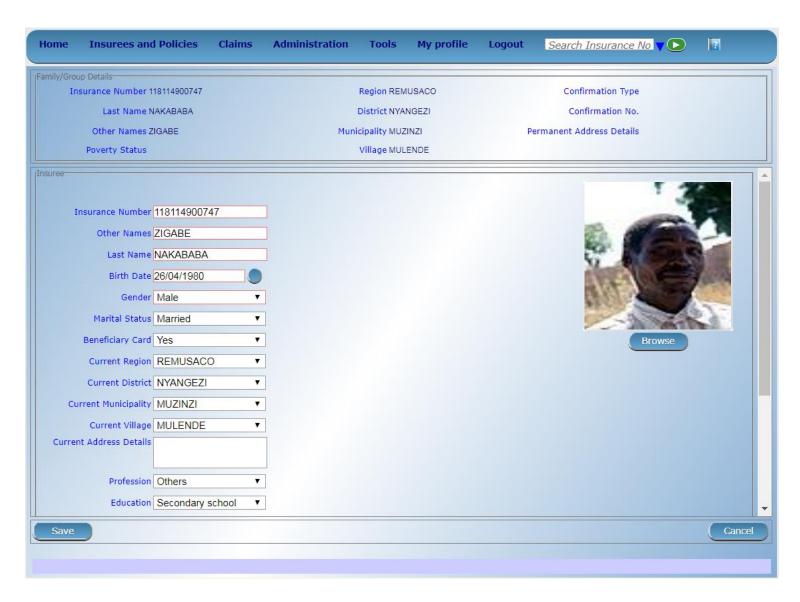


# How to improve both identification and claim management? a standard enrolment process model with IMIS



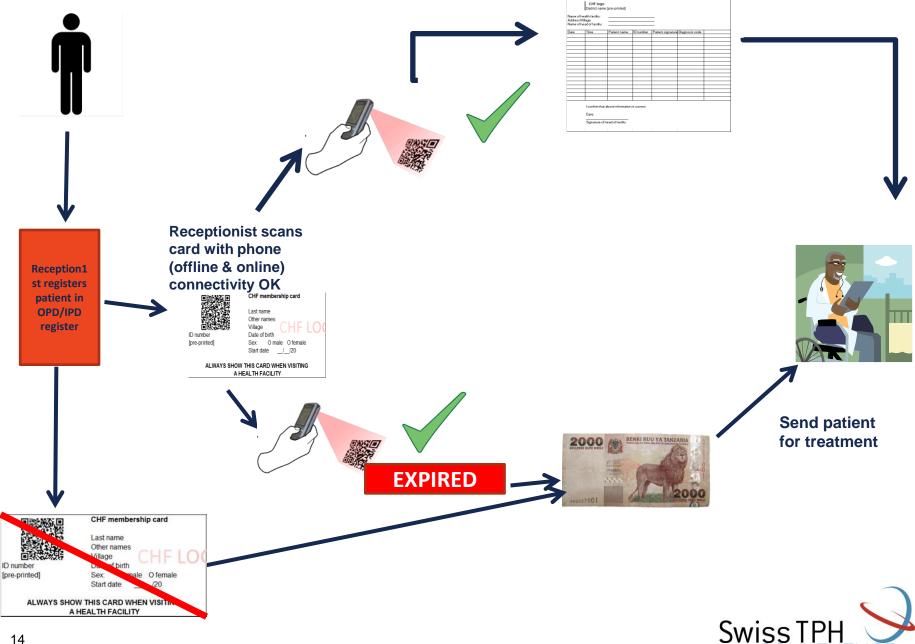


### **Enrolment of member**

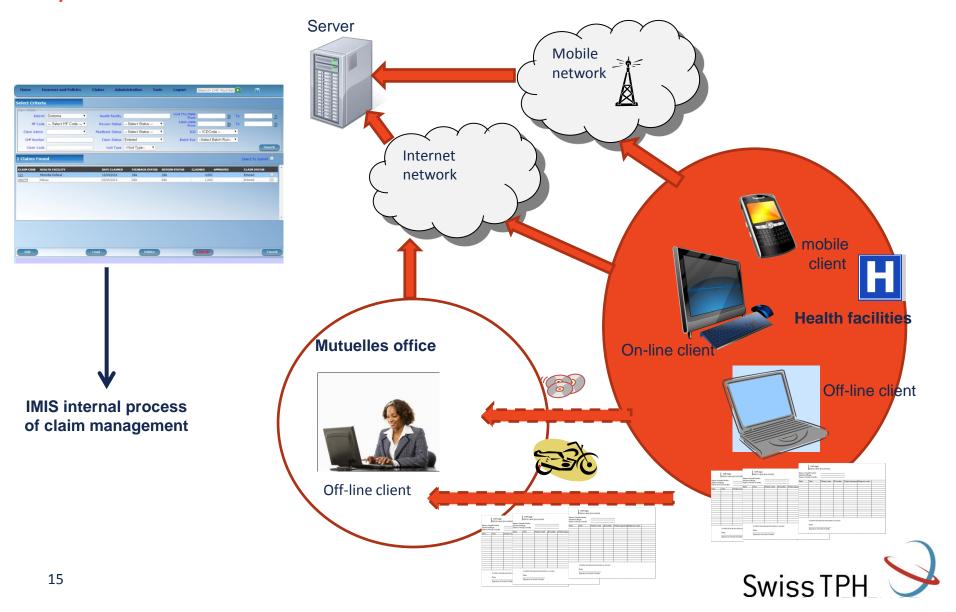




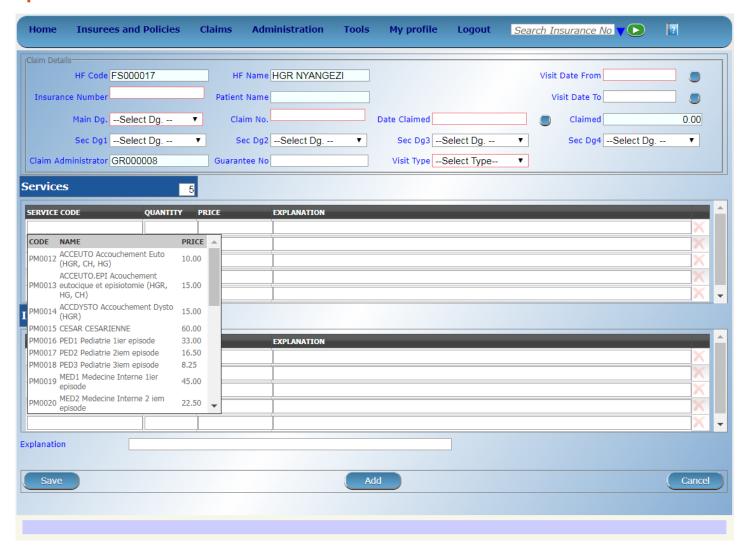
### **Insuree Service Utilization Process**



# Clarifying health facilities invoicing to standardize processes



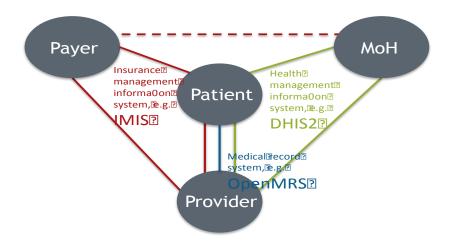
# Clarifying health facilities invoicing to standardize processes



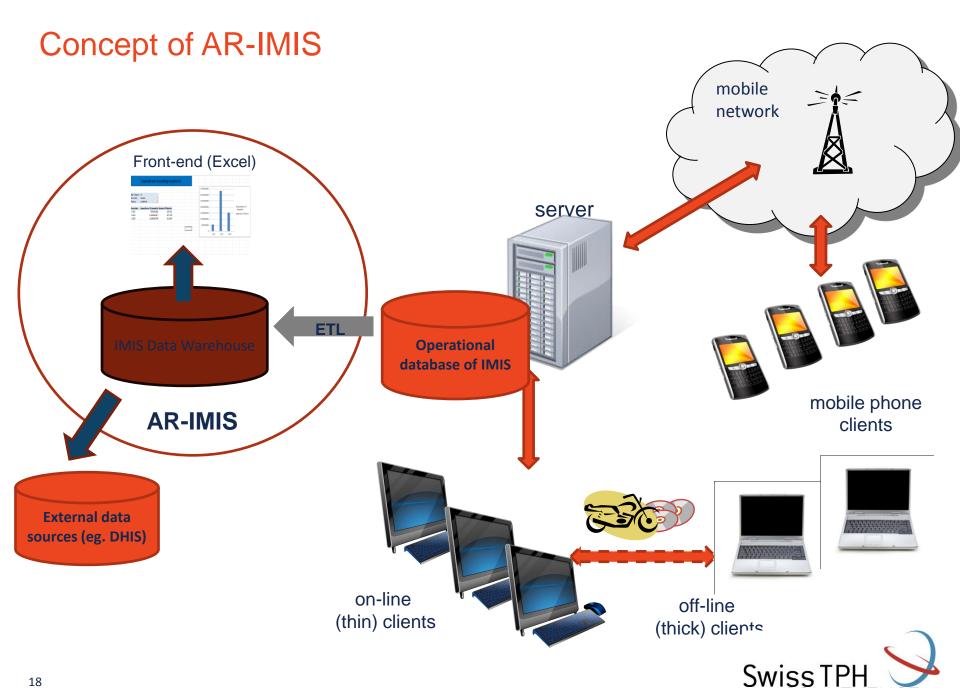


### Key Issues / Challenges

- Lack of information/standardization: pre-existing mandatory information expected to configuration the system
- Limited onsite support: pilot implementation based on consultation missions without local technical coordination
- Infrastructure and IT challenges: internet instability
- Identifying the knowledge house: IMIS administrator should have a good knowledge of the insurance scheme in order to configure the système
- The tussel for access to data: confusion on accessing data by external actors







### **Lessons Learned**

- Applying a online based ICT solution in a remote area within a micro-insurance system is practical
- It takes time to install and encode due to internet instabilities, needs of IT training, process adaptation
- Important to explain the tool and methodology involving all stakeholders at the feasibility study stage including health facilities staff, social protection agency and health authorities.
- IMIS improves claim validation processes: effect on insurance scheme sustainability, better relation with health facilities, increasing trust both for health facilities and insured population => increase enrolment rate, in line with Universal Health Coverage
- Scaling up: network of mutuelles expressed their willingness to extend to 22 mutuelles in South Kivu (5 were piloted)
- Sustainability issues: need the frame of a long term project implementation, financial support to launch the system, lake of capacity in some mutuelles, adequate implementation of offline and online components according to internet availability
  - Recommendations done:
    - Define the most stable access to internet (use of mobile phone offline apps)
    - Capacity building for mutuelle
    - Strengthen institutional frame work



### Conclusion

#### What do we need for IMIS:

- Defining installation modality, preferably online system
- Appropriate human resources: at least a system administrator, a medical doctor and enrollment and claim encoder(s)
- Long term project commitment, local technical coordinator to coordinate implementation







#### Questions?

### THANK YOU FOR YOUR ATTENTION

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